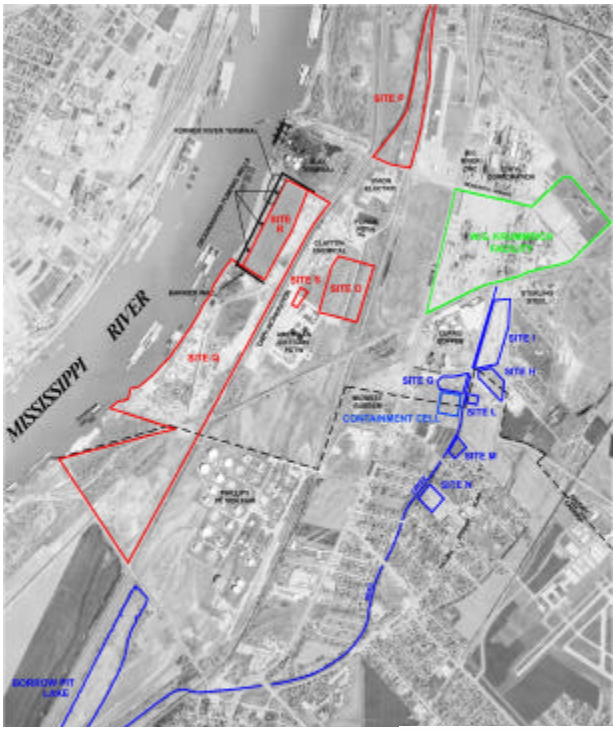
RCRA CORRECTIVE MEASURES STUDY(CMS)

SOLUTIA INC.
W.G. KRUMMRICH FACILITY
SAUGET, ILLINOIS

VOLUME I – CMS REPORT ADDENDUM



Prepared by:
Solutia Inc.
575 Maryville Centre Drive
St. Louis, Missouri 63141

August 27, 2004

Boring Logs

Phase I

LOG OF BORING
S0101

Completion Date: 3/11/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	36	0.0			ML	Dark brown clayey sandy SILT	1148 Sample S0101(0-2) for VOCs, SVOCs, metals, and PCB field test
						CL	Dry, brown sandy CLAY	
			0.0				Moist, tan SAND	
5	48	42	0.0					Wet at interface of sands
			0.0					
	48	45	0.0			SP	Becomes tan / brown	
10			0.0					
	48	48	0.0				Becomes fine grained	1205 Sample S0101(13-15) for VOCs, SVOCs, metals, and PCB field test
15			0.0				Becomes coarse grained	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▮ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0102

Completion Date: 3/11/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	40	0.0			ML-CL	Brown sandy clayey SILT	1250 Sample S0102(0-2) for VOCs, SVOCs, metals, and PCB field test
			0.0			SM	Brown, fine grained silty SAND	
5	48	48	0.0			SM	Becomes slightly moist	1255 Sample S0102(4-6) for VOCs, SVOCS, metals, and PCB field test
			0.0			CL-ML	Soft, wet, brown silty CLAY	
	48	38	0.0			CL-ML	Becomes stiff	
10			0.0			CL-ML	Moist, brown, fine grained sandy CLAY	
			0.0			SP	Tan, fine grained SAND	
	48	0				SP		Sleeve crumpled, no real recovery
15								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0103

Completion Date: 3/12/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	25	0.7 0.6			ML	Slightly moist, dark brown sandy SILT	Moisture due to rain
						SM	Moist, tan / brown, fine grained silty SAND	0950 Sample S0103(0-2) for VOCs, SVOCs, metals, and PCB field test
5	48	38	0.9 1.1			ML	Moist, tan, fine grained sandy SILT	
10	48	34	0.0 1.8			SM	Tan / brown, fine grained silty SAND	
15	48	48	0.7 1.0			SP	Slightly moist, tan, mottled, fine to medium grained SAND	1005 Sample S0103(13-15) and S0103(13-15)D for VOCs, SVOCs, metals, and PCB field test
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0104

Completion Date: 3/11/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	36	0.0			ML	Brown sandy SILT	1635 Sample S0104(0-2) for VOCs, SVOCs, metals, and PCB field test
						SM	Brown, fine grained silty SAND	Becomes wet
			0.0			CL-ML	Soft to medium stiff, dry to moist, brown silty CLAY	
5	48	36	0.0			CL	Soft, moist to wet, brown silty sandy CLAY	
			0.0			CL-ML	Stiff, dry to moist, brown / tan, mottled silty CLAY with some soft spots	
	48	39	0.0			CL	Soft, moist, brown silty sandy CLAY Becomes wet	
10						SM	Brown, fine grained silty SAND	
			0.0			ML-CL	Brown clayey SILT	
	48	38	0.0			CL-ML	Soft, brown silty CLAY	
						SP	Moist, tan, coarse grained SAND	1655 Sample S0104(13-15) for VOCs, SVOCs, metals, and PCB field test
15			0.0				Becomes dry	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0105

Completion Date: 3/11/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	39	0.0			ML-CL	Blackish clayey SILT	
						SM	Moist, black / tan, fine grained silty SAND	1525 Samples S0105(0-2), S0105(0-2)MS, and S0105(0-2)MSD for VOCs, SVOCs, metals, and PCB field test
			0.0			CL-ML	Medium stiff, moist, brown silty CLAY	
5	48	40	0.0			CL	Moist, brown sandy CLAY	
			0.0			SM	Wet, brown silty SAND	
	48	34	0.0			SC	Wet, brown clayey SAND	
10						CL	Moist, brown silty sandy CLAY	
			0.0			SP	Dry to moist, tan / brown, medium grained SAND	
	48	39	0.0					1520 Sample S0105(13-15) for VOCs, SVOCs, metals, and PCB field test
15			0.0				Becomes wet	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0106

Completion Date: 3/12/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	63	2.1 3.0			ML SM	Moist, dark brown sandy SILT Moist, tan / brown, fine grained silty SAND	1140 Sample S0106(0-2) and S0106(0-2)EB for VOCs, SVOCs, metals, and PCB field test PID readings in head space are slowly rising, possibly inaccurate
5	48	37	4.7 25.0			SM ML SM	Becomes moist Moist, tan sandy SILT Moist, tan silty SAND	
10	48	41	140.0 74.0			SM CL-ML SM	Becomes brown Becomes tan Wet, tan silty CLAY Moist, tan, silty SAND	1150 Sample S0106(8-10) for VOCs, SVOCs, metals, and PCB field test
15	48	44	70.0 10.0			ML-CL SP	Moist, tan, clayey SILT Becomes medium stiff and wet Dry to moist, brown / tan, fine to medium grained, SAND Becomes wet	
20								End of Boring

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0107

Completion Date: 3/13/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	28	1.3			ML-CL	Moist, black sandy clayey SILT	1335 Sample S0107(0-2) for VOCs, SVOCs, metals, and PCB field test
			1.9			CL	Soft, black silty sandy CLAY	
5	48	41	2.4				Medium stiff, moist, black, mottled silty CLAY	
			1.2			ML-CL	Wet, gray, mottled sandy clayey SILT	
	48	40	0.8			CL-ML	Medium stiff, moist, gray, mottled silty CLAY Becomes wet and brown	
10			0.9			SM	Becomes tan and mottled Moist, tan / brown, fine grained silty SAND	
	48	40	0.3			CL	Soft, moist, brown, plastic silty CLAY	1345 Sample S0107(13-15) for VOCs, SVOCs, metals, and PCB field test
15			0.7			SM	Moist, tan / brown, fine grained SAND	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0108

Completion Date: 3/13/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	24	0.0 1.5			ML-CL SM	Gray sandy clayey SILT Moist, tan, fine grained silty SAND	0910 Sample S0108(0-2), S0108(0-2)MS, and S0108(0-2)MSD for VOCs, SVOCs, metals, and PCB field test
5	48	44	0.0 0.0			SP	Moist, tan / brown SAND with silt	
10	48	37	0.9 0.8			SM	Moist, tan / brown silty SAND	
15	48	48	0.2 0.8			SP	Moist, tan, fine grained SAND	0910 Sample S0108(13-15) and S0108(13-15)EB for VOCs, SVOCs, metals, and PCB field test
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0109

Completion Date: 3/13/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						TOPSOIL	TOPSOIL with grass cover	
	48	36	1.0 2.1			ML	Moist, brown, low plasticity sandy SILT	1015 Sample S0109(0-2), S0109(0-2)MS, and S0109(0-2)MSD for VOCs, SVOCs, metals, and PCB field test
5	48	39	4.7 3.4				Becomes very moist	
						SM	Moist, brown, fine grained silty SAND	
10	48	30	0.0 1.1					
	48	46	2.4 3.4			ML	Moist, brown, low plastic SILT with fine grained clayey sand	1035 Sample S0109(13-15) for VOCs, SVOCs, metals, and PCB field test
15							Becomes wet and gray	End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Steve Shroff

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0110

Completion Date: 3/13/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	USCS	DESCRIPTION	NOTES
	48	24	0.0	TOPSOIL	TOPSOIL with grass cover	
				FILL	Brown, low plastic sandy silt FILL with brick and cinders	1130 Sample S0110(0-2) for VOCs, SVOCs, metals, and PCB field test
				SP	Dry, brown, fine grained SAND	
5	48	38	0.3			
			0.0	ML	Moist, brown, low plastic sandy SILT	
	48	36		SP	Dry, brown, fine grained SAND with silt	Could not retrieve tube with sample; therefore, no headspace was able to be taken, the material was logged as it fell out of the tube.
10					Grades to no silt	
	48	44	0.0			1215 Sample S0110(13-15) for VOCs, SVOCs, metals, and PCB field test
15			0.0			
						End of Boring
20						

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Steve Shroff

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0111

Completion Date: 3/13/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	10	5.6			ML	Moist, black sandy SILT	1115 Sample S0111(0-2) for VOCs, SVOCs, metals, and PCB field test
5	48	42	6.7			SM	Moist, tan silty SAND	
			7.7			CL-ML	Medium stiff, moist, tan silty CLAY	
10	48	48	8.2 7.4			SP	Moist, brown, mottled SAND with some silt	PID readings are high due to humidity
15	48	34	7.0 6.4			SM	Moist, tan, fine grained silty SAND	1125 Sample S0111(13-15) for VOCs, SVOCs, metals, and PCB field test
20								End of Boring

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent0

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0112

Completion Date: 3/13/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	36	0.0			ML-CL	Dry, brown clayey SILT	
						SM	Dry, black silty SAND Becomes moist and brown	1030 Sample S0112(0-2) for VOCs, SVOCs, metals, and PCB field test
			0.0			SP	Moist, brown SAND	
5	48	39	0.3			SM	Moist, brown / tan, fine grained silty SAND	
			0.0					
	48	42	0.4				Becomes wet	1035 Sample S0112(7-9) for VOCs, SVOCs, metals, and PCB field test
10			0.3			CL-ML	Soft to stiff, tan, soft to stiff silty CLAY	
	48	35	0.6			SM	Moist, tan silty SAND	
15			0.8					
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0113

Completion Date: 3/13/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ML	Moist, black clayey sandy SILT	
	48	34	4.4 4.2			SM	Moist, tan, fine grained silty SAND	1210 Sample S0113(0-2) for VOCs, SVOCs, metals, and PCB field test
5	48	48	2.6 4.2			SM	Becomes mottled	
						ML-CL	Medium stiff, moist, tan, mottled silty CLAY	
10	48	48	3.7 3.7			CL	Medium stiff to stiff, moist, , tan / brown, mottled CLAY	
						SM	Dry, tan / brown, fine grained silty SAND Becomes moist	
15	48	43	4.4 4.5			SM	With some clay	1215 Sample S0113(13-15) and S0113(13-15)D for VOCs, SVOCs, metals and PCB field test
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0114

Completion Date: 3/13/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	36	0.0			TOPSOIL	TOPSOIL with grass cover	
			2.1			SM	Moist, brown, fine grained silty SAND Becomes dry	1345 Sample S0114(0-2) for VOCs, SVOCs, metals, and PCB field test
5	48	48	0.0			CL	Moist, brown silty CLAY	
						SM	Brown, fine grained silty SAND	
			0.0			ML	Wet, brown, low plastic sandy SILT	
10	48	48	3.5			CL-ML	Moist, brown, low plastic silty CLAY	
			4.8			ML-CL	Moist, brown, low plastic clayey SILT with fine grained sand	
15	48	24	1.4			SM	Brown, fine grained SAND	1405 Sample S0114(13-15) for VOCs, SVOCs, metals, and PCB field test
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Steve Shroff

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0201

Completion Date: 3/13/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						TOPSOIL	TOPSOIL with grass cover	
	48	35	0.0			ML	Dry, brown, low plastic sandy SILT	1600 Sample S0201(0-2) and S0201(0-2)EB for VOCs, SVOCs, metals, and PCB field test
						SM	Dry, brown, fine grained silty SAND	
5			0.0			ML	Wet, brown, low plastic sandy SILT	Perched water
	48	38	0.3			CL-ML	Moist, brown silty CLAY	
			0.0				Dry, brown, fine grained SAND	
10	48	36	0.0			SP		
	48	40						1620 Sample S0201(13-15) for VOCs, SVOCs, metals, and PCB field test
15								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Steve Schroff

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0202

Completion Date: 3/13/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						TOPSOIL	TOPSOIL with grass cover	
	48	28	0.0			ML-CL	Moist, brown, low plastic sandy clayey SILT	1435 Sample S0202(0-2) for VOCs, SVOCs, metals, and PCB field test
						SP	Moist, brown, fine grained SAND	
						ML	Moist, brown, low plastic sandy SILT	
5	48	35	0.0			SP	Moist, brown, fine grained SAND	
			0.0			ML	Moist, brown, low plastic sandy SILT	
	48	21	0.2					
10			0.5			SP	Moist, brown, fine grained SAND	
	48	48	0.2					
15			0.3					1500 Sample S0202(13-15) and S0202(13-15)D for VOCs, SVOCs, metals, and PCB field analysis
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Steve Schroff

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▮ NX Wireline Core Barrel
☒ Geoprobe Macro Sampler
ATD - At time of drilling

Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0203

Completion Date: 3/13/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	31	6.6			ML	Moist, black clayey sandy SILT	1430 Sample S0203(0-2) for VOCs, SVOCs, metals, and PCB field test
			6.7			SM	Moist, tan silty SAND	
5	48	48	6.9				Becomes wet	
			7.4			CL-ML	Soft, moist, brown / tan, mottled silty CLAY	
			6.8				Becomes stiff	
10	48	43	6.9				Becomes dry	
			7.2			SP	Moist, tan / brown, fine grained SAND	
	48	97						1440 Sample S0203(13-15) for VOCs, SVOCs, metals, and PCB field test
15			7.8					
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0204

Completion Date: 3/27/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						TOPSOIL	TOPSOIL with grass cover	
	48	32	16.1				Stiff, dark brown, non-plastic silty CLAY	1205 Sample S0204(0-2) for VOCs, SVOCs, metals, and PCB field test
			7.2				Soft, moist, brown, low plastic sandy silty CLAY Becomes stiff	
5	48	39	4.6			CL-ML		
			3.7				Becomes soft and moist to wet	
	48	36	2.5				Dry to moist, tan, medium grained SAND	
10			8.9				Becomes moist to wet	
	48	42	12.6			SP		
15			16.6				Becomes moist to wet and coarse grained Becomes dry to moist	1230 Sample S0204(14-16) and S0204(14-16)D for VOCs, SVOCs, metals, and PCB field test End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0205

Completion Date: 3/26/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48		23.5 19.7			ML	Brown SILT Moist, black sandy SILT	1535 Sample S0205(0-2) for VOCs, SVOCs, metals, and PCB field test
5	48	38	6.9			SM	Moist, brown, fine grained silty SAND Becomes black	
						ML	Wet, dark brown sandy clayey SILT	
			13.9			SM	Moist, tan silty SAND	
10	48	43	15.4 11.0			ML	Moist, brown sandy SILT Becomes tan Soft, moist, tan clayey SILT or silty CLAY	
	48	48	20.2			SM	Moist, brown / tan, fine grained silty SAND	
						ML	Wet, dark brown sandy clayey SILT	1540 Sample S0205(13-15) for VOCs, SVOCs, metals, and PCB field test
15			22.4			SM	Moist, tan, fine grained silty SAND	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0206

Completion Date: 3/26/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	32	21.3			ML	Moist, brown sandy SILT	
						SM	Moist, brown silty SAND	1620 Sample S0206(0-2) for VOCs, SVOCs, metals, and PCB field test
			22.8			CL-ML	Medium stiff, moist, brown silty CLAY	
5	48	35	25.5					
			17.8			SM	Dry to moist, tan, fine grained silty SAND	
	48	45	18.2					
10			19.9					
	48	38	19.4				Becomes moist	
15			17.1					1630 Sample S0206(13-15) and S0206(13-15)EB for VOCs, SVOCs, metals, and PCB field test
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0207

Completion Date: 3/13/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	34	8.7			ML-CL	Soft, moist, black silty CLAY or clayey SILT with gravel	1515 Sample S0207(0-2) for VOCs, SVOCs, metals, and PCB field test
			9.6			SM	Moist, tan silty SAND	
5	48	48	8.2			CL-ML	Medium stiff, tan, mottled silty CLAY	
			8.2				Becomes stiff	
	48	32	8.2			SM	Dry to moist, tan silty SAND	
10			9.9					
	48	41	9.5					
						SC	Tan silty clayey SAND	1520 Sample S0207(13-15) and S0207(13-15)EB for VOCs, SVOCs, metals, and PCB field test
15			8.4			SM	Dry to moist, tan silty SAND	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0208

Completion Date: 3/27/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						TOPSOIL	TOPSOIL with grass cover	
			3.4			SM	Moist, dark brown silty SAND	1115 Sample S0208(0-2) for VOCs, SVOCs, metals, and PCB field test
	48	44					Stiff, moist, dark brown, low plastic silty CLAY	
							Becomes harder	
			2.4					
							Becomes softer	
5			2.0				Becomes soft, brown, and plastic	
	48	39				CL-ML	Becomes stiff	
			3.5				Soft, moist to wet, brown sandy silty CLAY	
			3.9					
10	48	40					Moist, tan, medium grained SAND	1130 Sample S0208(9-11) for VOCs, SVOCs, metals, and PCB field test
			4.3			SP	Becomes wet and gray	
							Soft, wet, brown silty SAND	
			4.2			SM		
	48						Wet, tan, coarse grained, poorly graded SAND	
15			4.3			SP		
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Kim Hoskins/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0209

Completion Date: 3/27/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						TOPSOIL	TOPSOIL with grass cover	
	48	48	0.9			CL-ML	Hard, moist, dark brown, non-plastic silty CLAY	1020 Sample S0209(0-2) for VOCs, SVOCs, metals, and PCB field test
			2.1					
5	48	44	1.4				Soft, moist, brown, plastic sandy silty CLAY Becomes moist to wet	
			2.2				Becomes hard and moist with rust colored mottles	
						SP	Moist, brown / tan, medium grained SAND	
						CL-ML	Hard, moist, brown, plastic sandy silty CLAY	
			1.9			SP	Moist, tan, medium grained SAND	
10	48	48						
			1.8			SM	Moist, brown silty SAND Becomes soft and moist to wet	
			1.6			SP	Moist, tan, coarse grained, poorly graded SAND	
	48	33						1045 Sample S0209(13-15) for VOCs, SVOCs, metals, and PCB field test
15			0.8					
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Kim Hoskins/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0210

Completion Date: 3/27/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	40	5.3				Brown, medium grained, poorly graded silty SAND	0915 Sample S0210(0-2) for VOCs, SVOCs, metals, and PCB field test
			9.6					
5	48	40	7.9			SM	Becomes moist	
			9.6				Becomes fine grained	
10	48	48	8.9				Becomes coarse grained Becomes moist to wet and fine grained	
			9.4				Soft, wet, brown sandy SILT	
	48	36	8.5			ML		
15			8.7				Becomes tan and coarse grained Becomes moist and fine grained Becomes dry	0935 Sample S0210(13-15) for VOCs, SVOCs, metals, and PCB field test
20								End of Boring

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Kim Hoskins/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⧓ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0211

Completion Date: 3/28/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	40	5.6			CL-ML	Moist, dark brown silty CLAY	1015 Sample S0211(0-2) and S0211(0-2)EB for VOCs, SVOCs, metals, and PCB field test
			4.3			ML	Moist, brown sandy SILT	
5	48	44	3.0			SM	Moist, tan, fine grained silty SAND	
			3.7					
	48	48	2.9			SP	Moist, tan, medium grained SAND	
10			3.0				Becomes fine to medium grained	
	48	48	4.2					1020 Sample S0211(13-15) for VOCs, SVOCs, metals, and PCB field test
15			4.6					
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0212

Completion Date: 3/28/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						CL-ML	Medium stiff, moist, dark brown silty CLAY	
	48	38	3.5 6.4				Moist, dark brown, fine grained silty SAND Becomes tan	1115 Sample S0212(0-2) for VOCs, SVOCs, metals, and PCB field test
5	48	42	8.2 6.0				Moist, dark brown clayey silty SAND Moist, tan silty SAND	
	48	48	7.3 7.3			SM		
10								
	48							1125 Sample S0212(13-15) for VOCs, SVOCs, metals, and PCB field test
15							With some clay	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTILEV.GDT 8/25/04

LOG OF BORING
S0213

Completion Date: 3/27/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	39	14.7 17.0			ML	Brown / black sandy SILT	1515 Sample S0213(0-2) for VOCs, SVOCs, metals, and PCB field test
5	48	44	14.4 16.2			SM ML	Brown, fine grained silty SAND Soft, wet, brown sandy SILT	
10	48	36	11.0 11.3			SP	Dry, tan, medium grained SAND Becomes fine to medium grained Becomes moist	
15	48	48	11.2 10.3				Becomes dry	1535 Sample S0213(13-15) for VOCs, SVOCs, metals, and PCB field test
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Kim Hoskins/Jennifer Schwent

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0301

Completion Date: 3/13/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	33	2.3 0.3			ML	Moist, black sandy SILT	1625 Sample S0301(0-2) for VOCs, SVOCs, metals, and PCB field test
							Moist, tan, fine grained silty SAND	
5	48	32	1.7 1.3			SM		
10	48	48	2.1 0.9			CL-ML	Medium stiff, wet, tan silty CLAY	
							Becomes wet (1')	
							Moist, tan, mottled, medium coarse grained SAND	
15	48	48	1.2 1.3			SP		1630 Sample S0301(13-15) and S0301(13-15)D for VOCs, SVOCs, metals, and PCB field test
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0302

Completion Date: 3/13/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	29	1.0			ML	Brown clayey sandy SILT	1520 Sample S0302(0-2) for VOCs, SVOCs, metals, and PCB field test
			0.7			ML-CL	Medium stiff, moist, brown, mottled silty sandy CLAY or sandy clayey SILT	
5	48	39	0.8				Soft, moist, brown clayey SILT Becomes wet	
			3.6			SM	Wet, brown, fine grained clayey silty SAND Becomes moist	
10	48	27	0.6			CL-ML	Becomes medium coarse Medium stiff, moist, brown silty CLAY	
			1.4				Becomes soft	
15	48	44	1.5			SM	Moist, tan, mottled, fine grained silty SAND with some clay Becomes fine to medium grained	1530 Sample S0302(13-15) for VOCs, SVOCs, metals, and PCB field test
			0.1					End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0303

Completion Date: 3/13/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ML	Moist, black sandy SILT	
	48	27	14.7 17.0			CL-ML	Stiff, dry to moist, gray / black silty CLAY	1425 Sample S0303(2-4) for VOCs, SVOCs, metals, and PCB field test
5	48	43	10.4 12.1			CL-ML	Becomes medium stiff, moist, brown, and mottled	
						ML-CL	Soft, wet, brown clayey SILT	
						CL-ML	Medium stiff, moist, brown, mottled silty CLAY Becomes wet Becomes soft and moist	
10	48	48	14.2 12.6			SP	Dry to moist, tan, fine grained SAND	
						CL-ML	Soft, moist, brown silty CLAY or clayey SILT	
15	48	37	12.8 14.7			SP	Moist, tan, mottled, fine grained SAND Becomes wet and gray	1435 Sample S0303(13-15) for VOCs, SVOCs, metals, and PCB field test
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0401

Completion Date: 3/26/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ML	Brown SILT with gray gravel	
	48	46	20.2			ML-CL	Soft, dry to moist, brown / gray clayey SILT	
			22.3					
5	48	47	25			CL-ML	Medium stiff, moist, gray / tan silty CLAY	
			31.5					
							Becomes soft	
	48	48	28.8			ML-CL	Soft, moist, brown clayey SILT	
10						CL-ML	Soft, moist, brown silty CLAY	
			23.8			SM	Moist, brown / tan, fine grained silty SAND	
						CL-ML	Medium stiff, moist, brown / black silty CLAY	
						SM	Moist, brown, fine grained silty SAND	
	48	45	18.7			ML-CL	Soft, moist, brown / tan clayey SILT	
						SP	Moist, tan, fine grained SAND Becomes wet Becomes moist	1420 Samples S0401(13-15), S0401 (13-15) MS, and S0401(13-15)MSD for VOCs, SVOCs, metals, and PCB field test
15			23.2					End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0402

Completion Date: 3/14/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	40	0.9			FILL	White, limestone gravel FILL	
							Black cinders and coal FILL	
			1.9				Red brick FILL with cinders and coal	
5	48	48	0.9			CL-ML	Stiff, moist, brown, low plastic silty CLAY with trace fine gravel	
			7.8					
	48	48	3.3				Stiff, moist, brownish-yellow clayey SILT or silty CLAY	
10			6.2			SM	Dense, moist, brownish-yellow, fine grained, dense silty SAND	
	48	46	17					
			15			ML	Stiff, moist, brown sandy SILT with clay	1345 Sample S0402(13-15) for VOCs, SVOCs, metals, and PCB field test
15						SM	Dense, moist, brownish-yellow, fine grained silty SAND	End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0403

Completion Date: 3/14/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	36	5.5			FILL	White limestone gravel FILL Black cinders and coal FILL with gravel	Strong odor
			313			SM	Dense, moist, gray, fine grained silty SAND	1505 Sample S0403(2-4) for VOCs, SVOCs, metals, and PCB field test
5	48	46	39.8					
			58				Medium dense, moist, gray, fine grained, poorly graded SAND	Strong odor
	48	42	158					
10			269			SP	Grades to fine grained sand with trace clay	Hydrocarbon odor
	48	48	166					
15			204					
							EOB at 16'	End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0404

Completion Date: 3/17/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	40	2.9			FILL	White limestone gravel FILL	
							Silty sandy gravel FILL	
			1.4				Loose, moist, light gray, fine grained, poorly graded SAND	
5	48	48	2.2			SP		
			2.2					
	48	48	2.2			GM	Brown, fine to medium grained silty GRAVEL	
10						ML-CL	Soft, wet, light brown clayey SILT	Perched water from 10-11'
			1.0				Dense, dry, brownish-yellow, fine to medium grained, well graded SAND	
	48	41	1.6			SW		
15			2.7				Grading very dense	0930 Sample S0404(13-15) and S0404(13-15)EB for VOCs, SVOCs, metals, and PCB field test
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0405

Completion Date: 3/14/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ML	Brown SILT with grass cover	
						ML-CL	Moist, brown clayey SILT	
	48	38	0.0 0.0			SM	Dry, dark brown, fine grained silty SAND	1440 Sample S0405(2-4) for VOCs, SVOCs, metals, and PCB field test
5	48	35	0.0 0.0			CL	Soft, moist, tan / brown silty sandy CLAY	
						SM	Moist, brown / tan, fine grained silty SAND with clay Becomes wet	
10	48	48	0.0 0.0			CL-ML	Soft, wet, tan / gray sandy silty CLAY Becomes moist to wet	
			0.0			SM	Moist, tan / brown, fine grained silty SAND	
						CL	Soft, wet, tan / brown sandy CLAY	
15	48	38	0.0			SP	Moist, tan / brown, medium coarse SAND	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0406

Completion Date: 3/14/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	34	9.2			FILL	Wet, white, fine grained gravel FILL with silt Black cinder FILL	Hydrocarbon odor
			29.6					
5	48	48	697				Moist, gray, fine grained silty sand FILL	Hydrocarbon odor
	48	48	986				Black cinder FILL	
10						CL-ML	Soft, gray silty CLAY Becomes wet	Hydrocarbon present 1555 Sample S0406(10-12) for VOCs, SVOCs, metals, and PCB field test
			1074					
	48	48	656			SM	Moist, gray, fine grained silty SAND	
						CL-ML	Moist to wet, gray sandy silty CLAY	
15			557			SP	Moist, gray, fine grained SAND	End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0407

Completion Date: 3/17/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	31	2.5 7.7			FILL	Gray gravel FILL with silt Black / brown cinder FILL with wood Medium stiff, brown silty clay FILL with black cinders Black / red / brown cinder FILL with silty clay	
5	48	48	247 314			GP CL-ML	White GRAVEL with soft, moist, gray silty clay Medium stiff, moist, black silty CLAY	Hydrocarbon odor
10	48	45	675 923			SM	Moist, gray, fine grained silty SAND	Hydrocarbon odor 0940 Sample S0407(12-14) and S0407(12-14) EB for VOCs, SVOCs, metals, and PCB field test
15	48	48	965 896					Hydrocarbon odor
20								End of Boring

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0408

Completion Date: 3/17/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	41	1.1			FILL	White limestone gravel FILL	
			2.5				Sandy silty gravel FILL	
5	48	36	1474					
			1678				Loose, moist, dark gray to dark brown silty SAND	Staining and hydrocarbon odor from 6-8' 1030 Sample S0408(6-8) for VOC, SVOC, metals, and PCB field test
	48	48	1470			SM		Staining
10			859					
	48	40	1540			SP	Dense, moist, brown, fine grained, poorly graded SAND	
15			1200					
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0409

Completion Date: 3/17/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	39	10.4				Moist, gray gravel and silt FILL with tan silty clay	
							Dry to moist, tan / brown / black cinder FILL	Slight hydrocarbon odor
			14				Stiff, dry, gray sandy silty clay FILL with cinders	
5	48	48	18				Moist, gray, fine grained silty sand FILL	Slight hydrocarbon odor
			462			FILL		Hydrocarbon odor
	48	37	97.1				Becomes wet Soft, wet, gray silty clay FILL	
10			490				Moist, black, fine grained silty sand FILL	1030 Sample S0409(10-12) for VOCs, SVOCs, metals, and PCB field test
	48	48	124					Hydrocarbon odor
							Becomes wet	
15			466				Black cinder FILL	
						SP	Moist, black, fine grained SAND with some clay	End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0410

Completion Date: 3/14/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	39	6.8			FILL	White gravel and silt FILL	
							Dry, dark brown silty sand FILL with black cinders	
			3.3				Moist, tan silty sand FILL	
5	48	48	3.4			SM	Dry, white gravel and silt FILL Dry to moist, dark brown silty SAND	
						CL-ML	Moist, dark brown silty CLAY	
			27.8			SM	Moist, dark brown silty SAND	Odor at 8'
10	48	48	104			CL-ML	Soft to medium stiff, moist, gray sandy Silty CLAY	
			83.2					
	48	48	267					Sheen from 13.5-14'
15			242			SP	Moist, gray, fine grained SAND	1135 Sample S0410(13-15) and S0410(13-15)D for VOCs, SVOCs, metals, and PCB field test Hydrocarbon odor
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Goerge Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0411

Completion Date: 3/14/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	41	6.5			FILL	White limestone gravel FILL	
						CL-ML	Soft, moist, dark brown, low plastic silty CLAY	
			10.5			SM	Moist, brownish-yellow, fine grained silty SAND	
5	48	48	10.5					
			6.6			CL-ML	Stiff, very moist silty CLAY	
						SP	Fine grained SAND	
	48	48	4.8			CL-ML	Soft, moist, brown, low plastic silty CLAY	Perched water at 8'
10			9.5					
						SM	Dense, wet, olive gray, fine grained silty SAND	
	48	48	5.0				Becomes loose and dry	Perched water layer, became dry beneath
15			112					1110 Sample S0411(14-16) and S0411(14-16)D for VOCs, SVOCs, metals, and PCB field test Strong odor at 15'
								End of Boring
20								

Completion Depth: **16.00 Ft.**
Project No.: **21561388.00000**
Project Name: **Krummrich Phase I**
Drilling Contractor: **Roberts Environmental Drilling Inc**
Drilling method: **Geoprobe**
Logged by: **Eric Fritsch**

URS

Water Depth: **N/A** ft., After **ATD** hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⧓ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0412

Completion Date: 3/24/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ASPHALT	ASPHALT	
	48	48	7.8			FILL	Crushed, white limestone FILL with cinders	
			10.3			SM	Medium dense, moist, brown, fine grained silty SAND	
5	48	48	12.6			ML-CL	Soft, brown clayey SILT	
			13.2					Perched water at 7'
	48	40	10.6			CL-ML	Stiff, moist, brown, low plastic silty CLAY	
10			13			SM	Medium dense, moist, brown, fine grained silty SAND	
	48	48	13.7			CL-ML	Stiff, moist, brown silty CLAY	
						SP	Dense, moist, brown, fine grained, poorly graded SAND	1440 Sample S0412(13-15) for VOCs, SVOCs, metals, and PCB field test
15			14.9					
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0413

Completion Date: 3/24/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						FILL	Moist, white gravel FILL with gray silty clay	
			63			CL-ML	Stiff, dry to moist, brown silty CLAY	
	48	34				SM	Moist, brown, fine grained silty SAND	
			9413				Stiff, dry to moist, brown silty CLAY	
5			9999+				Becomes soft	
	48	38				CL-ML	Becomes wet Becomes stiff and moist	
			9999+				Becomes soft	
			9999+				Soft, moist, gray silty CLAY	
10	48	40					Moist, gray, fine grained silty SAND	Solvent odor at 10' 1100 Sample S0413(10-12) and S0413(10-12)D for VOCs, SVOCs, metals, and PCB field test
			9999+			SM		
	48	40						
15								
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0414

Completion Date: 3/20/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	34	7.2			FILL	Moist, gray gravel FILL with sand	
							Black, low plastic clay FILL with cinders and gravel	
			10.8				Becomes sandy with less gravel	0915 Sample S0414 (4-6) for VOCs, SVOCs, metals, and PCB field test
							Becomes brown Light brown sand FILL	
5	48	38	7.0			CL-ML	Soft, moist, black, high plastic silty CLAY Becomes light brown, non-plastic, and sandy	
							Becomes wet	PID readings are elevated due to humidity
			2.8			SM	Moist to wet, light brown silty SAND	
	48	48	9.0			SP	Moist, Light brown SAND with dark brown clay and cinders	
10							Becomes tan	
			13.3				Becomes light brown	
						SC	Becomes orange-brown Moist, brown clayey SAND	
	48	39	14.8			SM	Soft, wet, light brown silty SAND Becomes gray Becomes tan	
							With dark brown cinders	
15			14			SP	Wet, light brown, coarse grained, poorly graded SAND	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG_21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0415

Completion Date: 3/20/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	24	0.0			FILL	White limestone gravel FILL Gravel, brick, sand, and concrete FILL	
5	48	48	0.0 0.0				Soft, moist, brown silty SAND	
10	48	30	0.0 0.0			SM		
15	48	24	0.0					1045 Sample S0415(12-14) and S0415(12-14)EB for VOCs, SVOCs, metals, and PCB field test
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0416

Completion Date: 3/20/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	30	0.0 0.0			FILL	White limestone gravel FILL Red brick FILL Moist cinder and gravel FILL with dark gray silty sand	Dark staining
5	48	40	0.0 0.0			CL-ML	Soft to medium stiff, moist, dark gray, low plastic silty CLAY	0815 Sample S0416(3-5) for VOCs, SVOCs, metals, and PCB field test Possible "sweet" odor
10	48	48	0.0 0.0			ML-CL	Soft, moist, dark gray clayey SILT	
						SP	Loose, moist, gray, fine grained, poorly graded SAND	
	48	48	0.0			ML	Stiff, moist, dark gray SILT	
15			0.0			SP	Medium dense, moist, dark gray, fine grained, poorly graded, SAND	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0501

Completion Date: 3/24/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ASPHALT	ASPHALT	
	48	48	4.0			FILL	White limestone gravel FILL	
			5.5			ML	Stiff, moist, reddish-brown / purple SILT	
5			8.4			CL-ML	Stiff, moist, gray, low plastic silty CLAY	
	48	40	8.7			SM	Medium dense, moist, gray, fine grained silty SAND	
			10.3					
10	48	40				ML	Soft, moist, gray SILT	
			9.8			SP	Dense, moist, gray, fine grained, poorly graded SAND	Hydrocarbon odor starting at 11'
	48	48	11.4					1705 Sample S0501(11-13) for VOCs, SVOCs, metals, and PCB field test
15			9.4					End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

⧓ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0502

Completion Date: 3/24/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	38	20.3 23.7			FILL	Dry, gray silt FILL with white gravel Dry to moist, brown clayey silt FILL with white gravel	
5	48	31	448 22			CL-ML	Soft, moist, brown / gray silty CLAY Becomes sandy with gravel Becomes wet	
						SM	Moist, tan / brown, fine grained silty SAND	Stained 1720 Sample S0502(6-8) for VOCs, SVOCs, metals, and PCB field test.
10	48	42	101 900					Solvent odor Solvent odor Solvent odor
	48	40	194 72.3			CL-ML SM	Grades to gray Soft, dark brown silty CLAY with white gravel Moist, gray, medium coarse silty SAND	Solvent odor
15								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0503

Completion Date: 3/26/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ASPHALT	ASPHALT	
			42.6				Dry, gray silt FILL with gravel	
	48	48					Dry to moist, gray silty clayey sand FILL with gravel	Hydrocarbon odor
							Gray concrete FILL	
			12.0				Hard, dry, dark brown clayey silt FILL	
						FILL	White / gray gravel FILL	
							Soft, wet, dark gray silty clay FILL	
5			50.0				Becomes white	
	48	45					Moist, black, coal and gravel FILL with some brown clayey silt	
			33.0				Medium stiff, moist, dark gray silty CLAY	
						CL-ML	Becomes soft and wet	
			53.8					Odor from 8-12'
10	48	45					Moist, dark gray / brown silty SAND	
			858					1130 Sample S0503(8-10) and S0503(8-10)D for VOCs, SVOCs, metals, and PCB field test
			778			SM		
	48	37						
15			638					
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0504

Completion Date: 3/25/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	41	2.5			FILL	Wet, white gravel FILL with gray silt Medium stiff, dry to moist, tan / gray, mottled silty clay or clayey silt FILL with some gravel and black staining	
			8.1			CL-ML	Moist, gray sandy silty CLAY	
5	48	33	6.5					
			9.2			SM	Moist, gray silty SAND	
10	48	42	48.8					Hydrocarbon odor at 12'
	36	36	7.5			CL	Moist, gray silty sandy CLAY	Stained from 11.5-15'
15			33.3					1130 Samples S0504(13-15) and S0504(13-15)EB for VOCs, SVOCs, metals, and PCB field test End of Boring
20								

Completion Depth: 15.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0505

Completion Date: 3/25/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	36	3.5			FILL	Stiff, moist, gray silty clay FILL Dry, gray silt FILL with gravel	
			4.8				Moist, Red brick and black gravel FILL Moist, tan, fine grained silty sand FILL with black gravel	
5	48	39	7.5			CL-ML	Stiff, dry to moist, gray sandy silty CLAY Becomes medium stiff and dry Becomes soft and moist	
			9.4				Becomes wet	Stained black
	48	38	9.1			SM	Gray, fine grained silty SAND	
10			101			CL-ML	Moist to wet, gray / black sandy silty CLAY	1525 Sample S0505 (10-12) for VOCs, SVOCs, metals, and PCB field test
	48	43	80.5			ML	Soft, wet, gray sandy SILT	Stained soils
15			35.2			SM	Moist, tan / gray silty SAND with some clay	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0506

Completion Date: 3/25/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	47	2.2 87.2			FILL	Gray clayey silt FILL with gravel Moist, gray clayey silty sand FILL with gravel	Hydrocarbon odor from 1-4'
5	48	30	27.7 19.1			CL-ML	Medium stiff, moist, gray silty CLAY Becomes soft	Gray staining from 4-8'
			66.1			SM	Moist, gray / black silty SAND	
						CL-ML	Medium stiff, moist, gray sandy silty CLAY	
10	48	48	9999+			SM	Moist, gray / black, fine grained silty SAND	Black staining from 8-12'
	48	48	1300 9999+			CL-ML	Soft, moist, black sandy Silty CLAY	
15						SM	Moist, gray, stained, fine grained silty SAND	1625 Sample S0506 (13-15) for VOCs, SVOCs, metals, and PCB field test
	48	48	79.6				Becomes medium coarse	Lightly stained
20								End of Boring

Completion Depth: 20.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0507

Completion Date: 3/24/03
Casing Elevation: N/A
Ground Elevation: 400.00

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						CONCRETE	CONCRETE	
	48	42	31.2			FILL	White limestone gravel FILL Moist, black cinder FILL with white gravel	
5	48	48	14.9 11.9			ML-CL	Stiff, moist, dark gray / black clayey SILT	
						SM	Medium dense, moist, gray, fine grained silty SAND	
10	48		8.6 29.0			ML-CL	Medium stiff, moist, dark gray clayey SILT	1550 Sample S0507(10-12) for VOCs, SVOCs, metals, and PCB field test Solvent odor from 11-16'
15	48		21.3			SM	Medium dense, moist, dark gray, fine grained silty SAND Becomes poorly graded	
20								End of Boring

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0508

Completion Date: 3/24/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						FILL	Dry, gray gravel FILL with silt	
	48	34	17.9			CL-ML	Medium stiff, gray sandy silty CLAY with gravel	
			24.8				Becomes soft	
5	48	33	18.5				Becomes wet	
			20.3			SM	Moist, brown, fine grained silty SAND	
	48	39	18.2				Becomes wet	
10			14.3					
			15.8			CL-ML	Soft, wet, tan silty CLAY	
	48	39				SM	Moist, gray, fine grained silty SAND	1430 Sample S0508(13-15) for VOCs, SVOCs, metals, and PCB field test
15			127					
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⧓ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON).LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0509

Completion Date: 3/21/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ASPHALT	ASPHALT	
	48	36	0.4			FILL	White limestone gravel FILL	
			3.3				Dark gray / black cinder FILL	
5	48	36	2.5			CL-ML	Stiff, moist, dark gray silty CLAY	1115 Samples S0509(3-5), S0509(3-5)MS, and S0509(3-5)MSD for VOCs, SVOCs, metals, and PCB field test
			3.4					
	48	48	6.4			ML-CL	Soft, wet, dark gray clayey SILT	
10			4.5			SM	Wet, dark gray, fine grained silty SAND	
	48	48	3.7					
15			2.9			CL-ML	Stiff, moist, gray silty CLAY	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0510

Completion Date: 3/24/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ASPHALT	ASPHALT	
	48	36	7.5			FILL	Dry, brown silt FILL with gravel	
							Stiff, moist, black silty clay FILL with gravel	
			20.7				White gravel FILL with stiff, moist, gray silty clay	
5						SM	Moist, gray, fine grained silty SAND	
	48	33	23.6			CL-ML	Stiff to medium stiff, gray sandy silty CLAY	
			26			SM	Moist, gray, fine grained silty SAND	1600 Sample S0510(6-8) for VOCs, SVOCs, metals, and PCB field test
10	48	40	24				Becomes wet and brown with some clay	
			27.9					
						CL-ML	Medium stiff, moist, brown silty CLAY with some gravel	
	48	48	30.8			SM	Moist, dark brown, fine grained silty SAND Becomes light gray	
15			11					
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0511

Completion Date:
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	26	16.9 14.4				Wet, dark brown, coarse gravel FILL with coarse grained sand Light brown, very coarse grained sand FILL Gravel and coarse grained sand FILL Dark brown sandy clayey silt FILL	
5	48	27	15.5 21.3			FILL	Becomes moist to wet Black, coarse grained sand FILL Orange-brown sandy silt FILL	
10	48	32	17.5 16.5				With black coarse sand Becomes moist with wood, brick, and black, coarse grained sand Black cinder FILL Concrete FILL	1120 Sample S0511(8-10) for VOCs, SVOCs, metals, and PCB field test,
15	48	31	21.0 20.9			SP	Dark brown sandy silty clay FILL Red brick FILL Black cinder FILL Gravel FILL Red brick FILL with brown sandy silt Tan, fine to medium grained SAND	
20								End of Boring

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0601

Completion Date: 3/24/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	24	815			FILL	Wet, white gravel FILL with gray clayey silt	
						SM	Wet, brown / tan, well graded silty SAND	
5	48	26	9999+					Solvent odor from 5.5-6'
						CL-ML	Medium stiff, moist, gray silty CLAY	Black staining from 4-8'
10	48	48	9999+					1000 Sample S0601(8-10), S0601(8-10)D, and S0601(8-10)EB for VOCs, SVOCs, metals, and PCB field test
	30	30	1363			SM	Moist, black, fine grained silty SAND	Odor
			615			CL-ML	Medium stiff, moist, gray silty CLAY	
15								End of Boring
20								

Completion Depth: 14.50 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0602

Completion Date: 3/24/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	48	3.4				White limestone gravel FILL with clay	
							Loose, moist, brown, fine grained silty sand FILL	
			6.9				Dark gray / black cinder and gravel FILL	
5	48	24	28.0			FILL		1115 Sample S0602(6-8) for VOCs, SVOCs, metals, and PCB field test Sight odor
10	48	24	22.9			CL-ML	Soft, moist, dark gray silty CLAY	Slight odor
15	48	24	7.9			SM	Medium dense, moist, dark gray silty SAND	End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⧓ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0603

Completion Date: 3/24/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0	48	32	22.7			FILL	Brown / gray gravel FILL with soft, wet, silty clay Becomes gray with dry silt Becomes gray / black with stiff, moist, brown silty clay Moist, black, fine grained sand and gravel FILL with red gravel	
			18.2					
5	48	24	15.8					1200 Sample S0603(6-8) for VOCs, SVOCs, metals, and PCB field test
							Moist, white gravel and black sand FILL	
	36	12	27			CL-ML	Soft, moist, brown sandy silty CLAY or clayey silty SAND	
10								Refusal at 11' End of Boring
15								
20								

Completion Depth: 11.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▮ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0604

Completion Date: 3/24/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	48	1.4			FILL	White limestone gravel FILL Dark gray / black cinders, gravel, and glass FILL	
			4.9			CL-ML	Stiff, moist, brown, low plastic silty CLAY	
5	48	42	4.8			SM	Moist, loose, brown silty SAND	
			4.1			CL-ML	Stiff, moist, brown silty CLAY	
	48	36	4.2			SM	Loose, moist, brown silty SAND Grades to very moist	
10			4.3			SP	Medium dense moist, brown, fine grained, poorly graded SAND	
	48	42	4.3			CL-ML	Stiff, moist, brown silty CLAY	
						SP	Medium dense, moist, brown, fine grained, poorly graded SAND	
15			35.8					1000 Sample S0604(14-16) and S0604(14-16)D for VOCs, SVOCs, metals, and PCB field test End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▮ NX Wireline Core Barrel
ATD - At time of drilling

☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG_21561197.GPJ URSSTLEV.GDT 9/25/04

LOG OF BORING
S0605

Completion Date: 3/21/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	46	1.0				Brown, sandy silt FILL with gravel Becomes dark brown Black cinder and coal FILL	
			3.8				Red brick FILL White, medium-sized gravel FILL Dark gray sandy silt FILL with cinders	
5	48	15	4.3			FILL	With red brick and no cinders Becomes coarse Becomes wet Wet, dark gray, plastic silty clay FILL	
10	48	48	1.2				Wet, black cinder FILL Wet, brown, plastic silty clay FILL Becomes soft Becomes hard and non-plastic	
			1.3				Wet, gray silty sand FILL Moist to wet, gray, medium grained sand FILL	
15	48	41	0.1 1.0			SP	Wet, brown sandy silty clay FILL Very wet, black cinder FILL with brown sandy silty clay Wet, tan, medium grained SAND Becomes moist	1640 Sample S0605(13-15) for VOCs, SVOCs, metals, and PCB field test
20								End of Boring

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON).LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0701

Completion Date: 3/21/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ASPHALT	ASPHALT	
			7.0				Black gravel and cinder FILL White gravel FILL Black cinder FILL	
	48	37					Hard, black / brown clay FILL with cinders	
			6.4					
5			17.6			FILL	Moist, brown sandy silt FILL Black cinder FILL	
	48	41					Dark gray silty sand FILL Black cinder FILL	
			9.3				Hard, dark gray, low plastic silty clay FILL Becomes light brown Becomes soft	1415 Sample S0701(6-8) for VOCs, SVOCs, metals, and PCB field test
			16.5				Tan, fine grained silty sand FILL Black cinder FILL Brown silty clay FILL Black cinder FILL	
10	48	46					Tan, fine grained, poorly graded silty SAND	
			17.0				Becomes moist to wet	
			13.0			SM		Acetate liner in geoprobe sampler becomes stuck; only retrieved small portion of sample
15	48							
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0702

Completion Date: 3/21/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	48	1.8			FILL	White limestone gravel FILL	
							Silt, gravel, and cinder FILL	
			177			ML	Medium stiff, moist, brown clayey SILT	
							Grades to reddish-brown	
5	48	48	10.6				Medium dense, moist. brown, fine grained silty SAND	1335 Sample S0702(3-5) for VOCs, SVOCs, metals, and PCB field test
			8.3					
			10.2					
10	48	48				SM		
			12.3				Becomes wet	
	48		8.1				Becomes gray and poorly graded	
15			3.1					
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0703

Completion Date: 3/21/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ASPHALT	ASPHALT	
	48	45	5.3			FILL	White limestone gravel FILL	
							Dark gray cinder and gravel FILL	
			3.9				Stiff, moist, brown, low plastic silty clay FILL	
5	48	48	4.8				Red brick FILL	1430 Sample S0703(5-7) for VOCs, SVOCs, metals, and PCB field test
			5.5				Dry, brown to brownish yellow, cinder, gravel, and silt FILL	Staining at 6'
	48	46	3.0				With red brick	
10			4.1					
	48	20	1.7					
15			3.2					
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0704

Completion Date: 3/21/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	24	1.5			FILL	White limestone gravel FILL	Black staining on ground surface
			1.0				Dark gray to black cinder and gravel FILL	
5							With red brick	
	48	36	1.0			CL-ML	Stiff, moist, olive gray, low plastic silty CLAY	
			1.7			SM	Loose, moist, brown, fine grained silty SAND	
	48	48	1.5			ML	Soft, wet, brownish-yellow sandy SILT	
10						CL-ML	Moist, brown silty CLAY	
			22.9			SW	Light brown, fine grained, poorly sorted SAND	
	48		561.0				Becomes gray	Staining Strong hydrocarbon odor
								1005 Sample S0704(14-16) for VOCs, SVOCs, metals, and PCB field test
15			1517				Becomes black	Heavily stained
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0705

Completion Date: 3/21/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	41				FILL	Wet gravel FILL with brown plastic sandy silt Red brick FILL White gravel FILL Dry, dark brown sandy silt FILL with gravel Dry, dark brown, non-plastic sandy silty clay FILL Dry, dark brown sandy silt FILL	1020 Sample S0705(2-4) for VOCs, SVOCs, metals, and PCB field test
5	48	35				FILL	Black cinder FILL Brown, non-plastic silty clay FILL with cinders	
						SP	Tan SAND	
						CL-ML	Dark brown, non-plastic sandy silty CLAY	
						SM	Silty SAND	
						ML	Dark brown sandy SILT	
10	48	48				SM	Moist, tan, fine grained silty SAND	
	48	48				SM	Becomes brown Becomes tan Becomes more coarse and poorly graded	
15								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0706

Completion Date: 3/25/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	39	9.9				Moist, brown clayey silt FILL with gravel	
			7.0				Becomes soft and wet	
5	48	48	4.6			FILL	Soft, moist, black silty clay FILL Becomes medium stiff	Black staining from 4-8'
			7.8				Moist, gray / black, fine grained silty sand FILL	
			10.9				Becomes medium coarse Soft, moist to wet silty clay FILL	Black staining from 8-12'
10	48	48	7.7			SM	Gray / brown gravel FILL Black, fine grained silty SAND	
						CL-ML	Soft, moist, tan silty CLAY	
						SM	Moist, black / gray, fine to medium grained silty SAND	
	48	48	5.6			CL-ML	Soft, moist, black silty CLAY	1625 Sample S0706(13-15) for VOCs, SVOCs, metals, and PCB field test
15			6.4			ML	Moist, black SILT	
						SM	Moist, black, fine grained silty SAND	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0707

Completion Date: 3/26/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	35	7.1			FILL	Moist, gray silt FILL with gravel Moist, white gravel FILL with brown / gray clayey silt Moist, black sand and gravel FILL	
			12.1				Becomes reddish brown Stiff, moist, reddish brown silty CLAY	
5	48	27	11.7			CL-ML	Becomes hard and gray	1000 Sample S0707(2-4), S0707(2-4)MS, and S0707(2-4)MSD for VOCs, SVOCs, metals, and PCB field test
			8.0					
	48	48	7.5			GP	Red / black GRAVEL with sandstone	
10			8.7			SM	Moist, tan, fine grained silty SAND	
	48	48	9.3			CL-ML	Soft, gray / brown / red silty CLAY with gravel Becomes moist to wet	
15			12.1			SM	Wet, brown / gray, fine grained silty SAND	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⧓ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0708

Completion Date: 3/21/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						CONCRETE	CONCRETE	
	48	33	9.1			FILL	White gravel FILL Brown sandy silt FILL with gravel and red brick	
			13.0			SP	Moist, tan SAND	
5	48	31	11.5			SP	Becomes poorly graded	1525 Sample S0708(4-6) for VOCs, SVOCs, metals, and PCB field test
			11.9			SM	Wet silty SAND	
10	48	30	11.5			SM	With gravel Becomes coarse	
			11.3			SM		
15	48	36	14.9			SM	Becomes clayey Becomes fine grained	
			9.2					End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON).LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0709

Completion Date: 3/20/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						CONCRETE	CONCRETE	
	48	41	4.9			FILL	Gravel, (FILL) Becomes black	
			1.2			CL-ML	Dry, black, non-plastic sandy silty CLAY with gravel	1450 Sample S0709(2-4) for VOCs, SVOCs, metals, and PCB field test
5	48	34	0.9				Stiff, moist, dark gray CLAY Becomes silty and non-plastic Becomes soft	
			3.5					
	48	48	2.1			CL	Becomes wet Becomes sandy	
10			3.0				Becomes stiff	
	48	32	3.5				Becomes plastic Becomes black with gravel Becomes silty	
15			2.0				Becomes light brown	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⧓ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0710

Completion Date: 3/21/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ASPHALT	ASPHALT	
						FILL	White limestone gravel FILL	
	48	48	9.7				Stiff, moist, brown / brownish yellow, mottled, low plastic silty CLAY	
			13.5					
5	48	48	18			CL-ML	Grades to olive gray	
			3543				Becomes soft and very moist	Solvent odor at 7'
			2337				Soft, moist, brown to gray clayey SILT	Strong solvent odor
10	48	48	9999			ML-CL		
	48							1530 Sample S0710(13-15) for VOCs, SVOCs, metals, and PCB field test
15								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0711

Completion Date: 3/20/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	28	0			ASPHALT	ASPHALT Black, medium sized gravel FILL White, large sized gravel FILL	
			2.0					
5	48	31	0.8			FILL	Dark brown cinder and fine gravel FILL Dark brown sandy clayey silt FILL with fine gravel	
			96					
			4.0				White, large sized gravel FILL	
10	48	41					Dark gray sandy silt FILL	Solvent odor
			200					
	48	37	305			ML	White, large sized gravel FILL Dark gray sandy SILT	1550 Sample S0711(12-14) for VOCs, SVOCs, metals, and PCB field test Faint solvent odor
15			245				Becomes black Becomes moist to wet and dark gray	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0712

Completion Date: 3/18/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	48	2.4			FILL	Gravel FILL with soft, moist, tan silty clay	
			1.9			CL-ML	Stiff, moist, black silty CLAY	1415 Sample S0712(3-5) for VOCs, SVOCs, metals, and PCB field test.
5	48	48	2.4			SM	Moist, tan, fine grained silty SAND	
			2.5			ML-CL	Soft, moist, tan / gray silty CLAY or clayey SILT	
						SM	Moist, tan / gray, fine grained silty SAND	
	48	41	2.3			ML-CL	Soft, gray / tan clayey SILT	
10			2.9			SM	Moist, gray, fine to medium grained SAND	
	48	41	4.5					Odor
			6.4			CL-ML	Stiff, dry, gray silty CLAY	
15						SP	Moist, gray, fine grained SAND	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0713

Completion Date: 3/18/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	20	6.3			FILL	White limestone gravel FILL	
			8.1				With clay	
5	48	46	17.3			CL-ML	Stiff, moist, gray, low plasticity silty CLAY	
			35.7			SM	Loose, moist, gray to dark gray, fine grained, poorly graded silty SAND	1350 ample S0713(6-8) for VOCs, SVOCs, metals, and PCB field test
10	48	18	13.0				With clay	
			29.1					
15			33.7					
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0801

Completion Date: 3/18/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ASPHALT	ASPHALT	
	48	36	5.8			FILL	White limestone gravel FILL	
			7.5				Silty clay FILL with cinders Cinder, gravel, and red brick FILL	
5	48	40	29.8			CL	Soft, moist, yellow / brownish yellow / gray / greenish gray CLAY	1530 Sample S0801(4-6) for VOCs, SVOCs, metals, and PCB field test
			18.9				Stiff, moist, dark gray / olive gray, low plasticity silty CLAY	
10	48	46	9.5			CL-ML		
			7.6					
	48	46	8.7					
15			50			SM	Dense, dark gray / black silty SAND	1540 Sample S0801(14-16) for VOCs, SVOCs, metals, and PCB field test
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

ATD - At time of drilling

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0802

Completion Date: 3/18/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	43	0				Dry, tan gravel FILL with silt	
							Soft, black cinder and gray gravel FILL with silty clay	
			20.3					1530 Sample S0802(2-4) and S0802(2-4)D for VOCs, SVOCs, metals, and PCB field test
5	48	26	18.1			FILL	Becomes wet Gray gravel FILL with silt Moist, black / brown / red cinders and gravel FILL	
			8.2					"Sweet" odor
	48	34	6.5				Wet, gray gravel FILL with soft silty clay Wet, red / black / brown cinder FILL Medium stiff, moist, gray silty clay FILL	
10			0				Moist, gray, fine grained silty sand FILL	
							Wet, black cinder FILL	
	48	40	0			ML-CL	Moist, gray / tan clayey SILT	
						CL-ML	Medium soft, wet, gray silty CLAY	
15			0			SM	Moist to wet, tan, fine grained silty SAND	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0803

Completion Date: 3/18/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						FILL	Wet. gray gravel FILL	
	48	35	0 0			ML	Hard, dry, brown clayey SILT Becomes dry to moist and gray	1620 Sample S0803(1-3) for VOCs, SVOCs, metals, and PCB field test
5	48	36	0 0				Becomes soft Becomes wet With gravel	
10	48	31	0 0			CL-ML	Medium stiff, moist, brown / gray silty CLAY Becomes gray with gravel Becomes medium stiff	
15	48	33	0 0			ML	Moist, gray sandy SILT	End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0901

Completion Date: 3/19/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	27	0.0			FILL	Moist, gray gravel FILL with silt	
			0.0				Dry, black cinder FILL with gray sand	1110 Sample S0901(1-3) for VOCs, SVOCs, metals, and PCB field test
5	48	38	0.0				Medium stiff, gray / tan silty clay FILL with gravel	
			0.0				Wet, white gravel FILL	
	48	48	0.0			CL-ML	Wet, black cinder FILL	
10			0.0				Wet, gray gravel FILL	
	30		0.0			ML-CL	Stiff, moist, greenish gray silty CLAY	
15							Hard, moist clayey SILT	End of Boring
20								

Completion Depth: 14.50 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0902

Completion Date: 3/19/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ASPHALT	ASPHALT	
						CONCRETE	CONCRETE	
	48	24	10.3			FILL	White limestone gravel FILL	
			32.3					
5	48	24	32				Dark gray cinder, gravel and coal FILL	
			67.5				Grades to cinder FILL	
						CL-ML	Stiff, moist, brown silty CLAY with green mottles	
10	48	48	190					1145 Sample S0902(9-11) for VOCs, SVOCs, metals, and PCB field test
			790				Becomes soft and low plastic	
							Becomes stiff and gray	Possible odor in silt
						SC	Moist, brown clayey SAND	
	48	48				CL-ML	Stiff, brown / gray, mottled, low plastic silty CLAY	
15							With silt	
							Yellowish red hematite with staining	End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⧓ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON).LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0903

Completion Date: 3/17/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	42	3.9			FILL	White limestone gravel FILL	
			2.6				Silty gravel, cinder,and coal FILL	
5	48	48	1.6				Stiff, olive gray silty CLAY with trace fine gravel	
			3.9					
	48	30	5.3			CL-ML	Grades to soft and moist	
10			6.8				Grades to stiff	1335 Sample S0903(10-12) for VOCs, SVOCs, metals, and PCB field test
	48		2.9					
15			0.7					End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON).LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0904

Completion Date: 3/19/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	USCS	DESCRIPTION	NOTES
				ASPHALT	ASPHALT	
	48	25	0.0	FILL	Gray gravel and silt FILL	
					Stiff, moist, dark brown sandy silty clay FILL	
			0.0			
					Becomes soft with no sand	
5	48	28	0.0			
			0.7		Becomes stiff and gray with black cinders and red brick	1005 Sample S0904(6-8) and S0904(6-8)EB for VOCs, SVOCs, metals, and PCB field test
			4.5		Becomes soft, moist, and tan with cinders and no red brick	
10	48	28				
			6.3		Becomes wet and gray	
					Dark gray gravel FILL with very soft, wet silty clay	
	48	48	11.9	ML	Gray sandy SILT	
15			8.4	CL-ML	Wet, gray sandy silty CLAY	Headspace readings potentially elevated due to moisture
				SM	Wet, gray silty SAND	End of Boring
20						

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0905

Completion Date: 3/19/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	36	12.1 10.0			FILL	Gray gravel FILL with silt Soft, moist, brown silty clay FILL with gravel Gray gravel FILL with silt Becomes moist with black / red cinders Becomes wet	1345 Sample S0905(1-3) for VOCs, SVOCs, metals, and PCB field test
5	48	38	7.8 9.9				Stiff, moist, gray silty clay FILL	Slight odor
10	48	48	7.9 9.6			ML-CL	Wet, black / gray cinder and gravel FILL with some clay Medium stiff, wet to moist, gray / brown silty CLAY	
15	48	28	5.4 12.3			CL SP	Soft, wet, gray CLAY Becomes gray/tan Moist, brown / tan, fine grained SAND	End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0906

Completion Date: 3/17/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	32	3.0 12.0				White limestone gravel FILL	1250 Sample S0906(2-4) for VOCs, SVOCs, metals, and PCB field test
5	48		2.9 4.5			FILL	Moist, dark brown to black silt, sand, and cinder FILL with trace gravel	Slight "sweet" odor
10	48		3.2 5.6				With medium to coarse grained gravel Stiff, moist, gray silty CLAY with trace fine gravel	Perched water from 8-12'
15	48		3.5 4.2			CL-ML		
20								End of Boring

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0907

Completion Date: 3/17/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	30	7.1				Gray fine gravel FILL	
			11.3				Moist, black / brown cinder FILL with some fine grained sand	
5	48	21	6.4			FILL	With red brick Becomes wet	
			15.3					
10	48	33	16.2				Medium soft, moist, gray silty clay FILL with black staining	
	48	38	14.4				Stiff, wet, gray clay FILL with red brick	Hydrocarbon odor
						CL	Stiff, moist, gray silty CLAY	1300 Sample S0907(13-15) for VOCs, SVOCs, metals, and PCB field test
15			17.0					
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON).LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S0908

Completion Date: 3/18/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	31	7.2				Dry, gray gravel FILL with silt	
							Moist, black / brown cinder and sand FILL with clay	
			13.0				Medium stiff, black / gray silty clay FILL	
							Medium stiff, dry, black / red cinder FILL with clay	
5	48	48	22.6				Stiff, dry, gray silty clay FILL with white gravel	
							Becomes dry to moist and gray / tan / black	
			25.8			FILL	Dry to moist, tan, fine grained sand FILL with some silt	0935 Sample S0908(6-8) for VOCs, SVOCs, metals, and PCB field test
							Stiff, moist, brown / black silty clay FILL	
			18.3					
10	48	48					Becomes tan	
			10.7				Moist, tan, fine grained silty sand FILL	
			7.1					
	48	39					With black cinders	
						CL-ML	Medium stiff, moist, tan Silty CLAY	
15			9.1			SM	Moist, tan, fine grained SAND	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

⊠ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S1001

Completion Date: 3/18/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	33	0.5				Dry, gray, coarse gravel and silt FILL	
			0.4				Moist, black cinder FILL with few gravel	1105 Sample S1001(2-4) for VOCs, SVOCs, metals, and PCB field test
5	48	24	2.7			FILL	Becomes wet with no gravel Wet, red brick FILL	
			1.3				Wet, black cinder FILL Becomes yellow orange	
	48	35	1.6				Wet, gray / black gravel FILL with red brick	
10			1.3			CL-ML	Stiff, moist, gray silty CLAY	
	48	48	0.5			SM	Wet, gray / orange / tan, fine grained silty SAND	
15			1.4					End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S1002

Completion Date: 3/18/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	48	17.4			FILL	White limestone gravel FILL	
			32/29.9				Stiff, moist, brown silty clay FILL	
5	48	40	14.9				With cinders and gravel	Hydrocarbon sheen on cinders and soil 1115 Sample S1002(3-5) for VOCs, SVOCs, metals, and PCB field test
			28.9			CL-ML	Stiff, moist, olive gray, low plastic silty CLAY	Perched water
10	48	48	41.5			ML	Soft, moist, dark brown SILT	
			7.5				Moist, brown, fine grained silty SAND	
15	48	18	5.7			SM		End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S1003

Completion Date: 3/18/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	40	20.9			FILL	White limestone gravel FILL	
							Cinder, gravel, and silt FILL	
			14.7				Dark gray, silty sand FILL with gravel	
5	48	48	64.3				Gravel, coal, cinder, silt, and sand FILL	0930 Sample S1003(5-7) for VOCs, SVOCs, metals, and PCB field test
			58.6					Hydrocarbon odor
							Stiff, moist, dark gray, low plastic silty CLAY	
10	48	48	12.8			CL-ML		
			25.4				Grades to gray with brownish yellow mottles	
	48	48	99.3					0945 Sample S1003(12-14) for VOCs, SVOCs, metals, and PCB field test
15			73.5			ML	Stiff, moist sandy SILT grading with clay	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON).LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S1004

Completion Date: 3/17/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	39	7.5			FILL	Dry, gray gravel and sil FILL	
							Dry, Black cinders and brown gravel FILL	
			13.5				Dry to moist, tan clayey silt FILL	
							Medium stiff, moist, gray silty clay FILL with large white gravel	
							Moist, brown clayey silt FILL	
5	48	40	11.6				Moist, black / brown cinder FILL with some silt	
							Medium stiff, moist, gray silty CLAY	
			33.6					Slight odor
								1445 Sample S1004(6-8) for VOCs, SVOCs, metals, and PCB field test
			23.5			CL-ML		
10	48	30						
			22.1				Becomes stiff	
			14.7					
	48	38					Becomes wet with gravel	
15			13.9			ML-CL	Moist to wet, gray sandy clayey SILT	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON).LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S1101

Completion Date: 3/14/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	37	0.0			FILL	Soft, moist, tan, soft silty sandy clay FILL Stiff, dry, brown silty clay FILL Black cinder FILL	
			0.0				Stiff, dry, brown silty CLAY	
5	48	48	0.0				Becomes moist	
			0.0					
			0.0			CL-ML		
10	48	48					Becomes gray / tan	
			0.2					0920 Sample S1101(10-12) for VOCs, SVOCs, metals, and PCB field test
							Becomes wet and brown / gray	
	48	48	1.7				Becomes stiff and moist	
15			0.0					
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S1102

Completion Date: 3/14/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	42				FILL	Light gray, coal and limestone gravel FILL	
							With coal and cinders	
			2.5				Stiff, moist, brownish yellow, low plastic silty CLAY	
5	48	48	3.8				Grades with silt	
			3.0				Stiff, moist, olive gray, low plastic silty CLAY	
			2.8			CL-ML		
10	48	48	2.7					
	48	48	2.9				Grades to greenish gray	0930 Sample S1102(13-15) for VOCs, SVOCs, metals, and PCB field test
15			2.9					
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⧓ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S1103

Completion Date: 3/14/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	48	0.7			FILL	Black cinder FILL	Ground surface is wet
							Medium stiff, dry to moist, tan / brown, mottled silty clay FILL with white limestone gravel	
			0.1				Becomes brown / gray Becomes soft and moist with sand	
5	48	38	2.3				Becomes moist to wet and tan / brown	
			3.4				Becomes stiff	
							Soft, moist, tanish brown silty clay FILL with black cinders	
	48	48	0.7			CL-ML	Medium stiff, gray / tan mottled silty CLAY	
10			2.6					
	48	48	0.0					1000 Samples S1103(13-15), S1103(13-15)MS, and S1103(13-15)MSD for VOCs, SVOCs, metals, and PCB field test
15			0.0					End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S1201

Completion Date: 3/19/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	27	0.0			FILL	Medium stiff, moist, brown silty clay FILL with gravel	
							Moist, brown, fine grained silty sand FILL	
							Gray gravel FILL	
			0.0			SM	Moist, brown, fine grained silty SAND with gravel	
5	48	30	0.0				With no gravel	1420 Sample S1201(4-6) for VOCs, SVOCs, metals, and PCB field test
			0.0			CL-ML	Soft, moist, tan / gray sandy silty CLAY	
			0.0				Becomes brown	
10	48	40	0.0			ML-CL	Mediun stiff, moist, brown clayey SILT	
	48	37	0.0			SM	Moist, tan, fine grained silty SAND	
							Becomes brown	
							Becomes wet	
15			0.0				Becomes moist	
							Becomes tan	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⧓ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S1202

Completion Date: 3/19/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	36	0.0			FILL	White limestone gravel FILL	
			0.0				Fine grained cinder, gravel, and silt FILL	
						CL-ML	Stiff, moist, low plasticity silty CLAY	
5	48	48	0.0			SM	Moist, brown, fine grained silty SAND	
			0.0					1420 Sample S1202(7-9) for VOCs, SVOCs, metals, and PCB field test
			0.0			ML-CL	Soft, wet, brown clayey SILT	
10	48	48	0.0					
						CL-ML	Stiff, moist, brown silty CLAY	
	48	48	0.0					
15			0.0			SP	Medium dense, moist, brownish yellow, fine grained poorly graded SAND	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S1203

Completion Date: 3/20/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	37	12.0 7.3			FILL	Gravel FILL with sand Black cinder FILL with gravel	1110 Sample S1203(3-5) for VOCs, SVOCs, metals, and PCB field test
5	48	24	11.0 14.5			CL-ML	Dry, black, non-plastic silty CLAY Soft, moist, brown, non-plastic silty CLAY Becomes wet	
10	48	48	21.0 28.0				Becomes black Becomes gray with sand	No odor
15	48	48	11.8 11.9			SP	Moist, Dark gray, fine grained, poorly graded SAND Becomes dark gray	No odor
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: George Jones/Jennifer Schwent

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S1204

Completion Date: 3/20/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ASPHALT	ASPHALT	
	48	40	5.3			FILL	Gravel FILL	
			7.9			FILL	With cinders	
						SP	Dry, fine grained, poorly graded SAND	
5	48	48	8.6			CL-ML	Stiff, moist, brown, low plastic silty CLAY	
						ML	Soft, moist, brown sandy SILT	1505 Sample S1204(6-8) and S1204(6-8)D for VOCs, SVOCs, metals, and PCB field test
			9.6			CL-ML	Stiff, moist, brown stiff, low plastic silty CLAY with brownish-yellow mottles	
	48	48	5.3			SM	Dense, moist, brown, fine grained silty SAND	
10			7.6			SM	Becomes wet	
						SM	Becomes moist	
	48	48	5.2			SM		
						SM	Becomes wet	
15			0.5			SM		
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: Krummrich Phase I
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: Eric Fritsch

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 21561197.GPJ URSSTLEV.GDT 8/25/04

Boring Logs

Phase II

LOG OF BORING
S-04-17

Completion Date: 10/20/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	40	0.0			FILL	Light gray gravel (1/8-1 1/2") FILL	1025 Sample S-04-17-1-2 for VOCs and SVOCs
			0.0			SP	Moist, dark brown, fine grained SAND Becomes wet, light brown, and clayey	1030 Sample S-04-17-1-2-MS for VOCs and SVOCs 1035 Sample S-04-17-1-2-MSD for VOCs and SVOCs
5	48	42	0.0			CL-ML	Medium stiff, moist, brown silty CLAY Becomes stiff	
			0.0			ML	Moist, brown, fine grained clayey sandy SILT	
						ML-CL	Firm, moist, brown clayey SILT (4")	
						CL-ML	Stiff, moist, brown silty CLAY	
10	48	46	0.0			CL	Stiff, moist, brown CLAY with some silt	1120 Sample S-04-17-10-12 for VOCs and SVOCs
			111			ML-CL	Medium stiff, dark brown to black clayey SILT Becomes soft	
	48	44	13			SC	Gray, gravelly clayey SAND	
15			884			SP	Loose, moist, gray to light gray, fine grained SAND	1145 Sample S-04-17-14-16 for VOCs and SVOCs
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▮ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-04-18

Completion Date: 10/20/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	36	0.0			FILL	Light gray gravel FILL with clay	
			0.0				Becomes light brown Medium stiff, dark brown silty clay FILL with cinders and coarse gravel	1500 Sample S-04-18-1-2 for VOCs and SVOCs
5	48	24	0.0				Becomes reddish brown Becomes wet	
			30.7			CL-ML	Medium stiff to soft, moist, dark brown / black silty CLAY	
10	48	46	108				With gray gravel (1/2 - 1")	1525 Sample S-04-18-9-11 for VOCs and SVOCs
			66.5			ML	Medium stiff, dark brown sandy SILT with staining	
	48	48	24.0			SP	Loose, dark gray, fine grained SAND	
15			2.3				Becomes wet	1535 Sample S-04-18-14-16 for VOCs and SVOCs
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▮ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-04-19

Completion Date: 10/22/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						FILL	Loose, light gray gravel silt FILL	
	48	40	0.4				Stiff, moist, brown silty CLAY	1245 Sample S-04-19-0-2-EB for VOCs and SVOCs
			0.4					1255 Sample S-04-19-0-2 for VOCs and SVOCs
5	48	42	0.3			CL-ML	Becomes medium stiff and silty	
			0.2				Becomes very moist	
							With gravel (1 - 1 1/2")	
10	48	48	0.7			SM	Loose, moist, black, fine grained silty SAND	
			88.6					1310 Sample S-04-19-10-12 for VOCs and SVOCs
	48	48	80.1			SP	Loose, light gray SAND	
15			1294				Becomes wet	1325 Sample S-04-19-14-16 for VOCs and SVOCs
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⧓ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-04-20

Completion Date: 10/22/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	USCS	DESCRIPTION	NOTES
	48	36	0.8 0.8	FILL	Loose gravelly silt FILL	
				ML-CL	Stiff, dark brown clayey SILT Becomes medium stiff	1350 Sample S-04-20-0-2 and S-04-20-0-2-D for VOCs and SVOCs
5	48	36	0.5 0.9	SM	Loose, brown, fine grained silty SAND	1405 Sample S-04-20-6-8 for VOCs and SVOCs
10	48	48	0.3 0.5		Becomes very soft and wet	
	48	36	0.5 0.3	SP	Loose, light brown, fine grained SAND With reddish banding	1415 Sample S-04-20-14-16 for VOCs and SVOCs
15						End of Boring
20						

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-04-21

Completion Date: 10/20/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	48	0.0			FILL	Loose, light gray / white gravel FILL	1330 Sample S-04-21-1-2 and S-04-21-1-2-D for VOCs and SVOCs
			6.8			CL	Dark brown sandy CLAY Becomes loose and light brown	
5	48	39	0.0			SM	Medium stiff, brown silty SAND Becomes wet and clayey	1420 Sample S-04-21-6-8 for VOCs and SVOCs
			0.0					
10	48	36	0.0			CL-ML	Soft, wet, dark brown silty CLAY	
			0.0				Becomes wet and black / brown	
15	48	44	0.0			SP	Loose, moist, gray, fine grained SAND	1430 Sample S-04-21-14-16 for VOCs and SVOCs
			0.0					
20								End of Boring

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▮ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-04-22

Completion Date: 10/23/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	46	0.3			FILL	Loose, dry, brown silt FILL with 1/2" gravel	1000 Sample S-04-22-0-2 for VOCs and SVOCs
			0.6				With light yellow powder Becomes stiff and dark brown with less gravel	
5	48	46	0.6			ML-CL	Moist, black clayey SILT	
			61.3			SP	Moist, black/gray, pepper-like SAND	
10	48	44	82					1005 Sample S-04-22-10-12 for VOCs and SVOCs
			96					
	48		61					1010 Sample S-04-22-14-16 for VOCs and SVOCs
15			61					
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: M. Miller

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-04-23

Completion Date: 10/22/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	36	0.1 0.2			FILL	Gravel and concrete FILL Medium stiff, black silty clay FILL with brick fragments	* Multiple offsets resulting in location 60' NW of original spot 1520 Sample S-04-23-0-2-EB for VOCs and SVOCs 1610 Sample S-04-23-0-2 for VOCs and SVOCs
5	48	36	0.2 12.9			ML-CL	Medium stiff, moist, dark brown clayey SILT	
10	48	44	17.5 40.1				Becomes soft, wet, and black	1620 Sample S-04-23-10-12 for VOCs and SVOCs Refusal at 12 feet due to concrete foundation End of Boring
15								
20								

Completion Depth: 12.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-04-24

Completion Date: 10/23/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ASPHALT	ASPHALT (street) (6")	
	48	38	0.3			FILL	Dry gravel silt FILL	1210 Sample S-04-24-0-2-EB for VOCs and SVOCs 1220 Sample S-04-24-0-2 for VOCs and SVOCs
			0.9				Stiff, dry to moist, brown clayey silt FILL with 3-5% glass particles	
5	48	48	0.5			CONCRETE	White concrete (2")	
			0.7				Brown clayey SILT Becomes moist to wet	Perched water at 6' 1230 Sample S-04-24-6-8 for VOCs and SVOCs
10	48	44	0.7			ML-CL	Some gravel (1/4")	
			0.6				Grades to stiff, brown silty CLAY	
15	48	42	0.6			SP	Moist, light brown SAND	1235 Sample S-04-24-14-16 for VOCs and SVOCs
			0.2					End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: M. Miller

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▮ NX Wireline Core Barrel
☒ Geoprobe Macro Sampler
ATD - At time of drilling

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-04-25

Completion Date: 10/23/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	USCS	DESCRIPTION	NOTES
	48	32	1.0	FILL	Stiff, brown, gravelly sandy silt FILL	Stiff drilling at 1' offset 1' W 1450 Sample S-04-25-0-2 for VOCs and SVOCs
			1.3		Grades to mottled clay Soft, moist, dark brown clay FILL with some gravel	
5	48	23		SM	Loose gravel (1/2-1") FILL with silt Moist, brown, medium to fine grained silty SAND	
			1.0	SP	Moist, light brown, medium grained SAND	1500 Sample S-04-25-6-8 and S-04-21-6-8-D for VOCs and SVOCs
			0.3	CL-ML	Moist, dark brown gravelly silty CLAY	
10	48	44	0.7	SP	Moist, light brown, medium grained SAND	
	48	42	0.7	SP	With banded brown color	1505 Sample S-04-21-14-16 for VOCs and SVOCs
15			0.6			
						End of Boring
20						

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: M. Miller

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-04-26

Completion Date: 10/24/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	USCS	DESCRIPTION	NOTES
	48	37	0.5	FILL	Crushed, white / gray gravel FILL	
					With cinders	0910 Sample S-04-26-1-3 for VOCs and SVOCs
			1.7		With wood fragments and cinders Slightly stiff, dry to moist, light brown / red sandy silt FILL	
5	48	32	0.7		Light gray / brown silt FILL with some gravels (1/4") grading out	
			6.4		Grades to dry, mottled sandy SILT	
			4.0		With cinders (3")	Perched water at 9'
10	48	48		ML-CL	Stiff, moist (wet 9' - 10'), brown, mottled sandy clayey SILT	0925 Sample S-04-26-10-12 for VOCs and SVOCs
			10.7			
	48	42	3.2	SM	Moist, brown, red, mottled, medium to fine grained silty SAND	
15			10.2			0930 Sample S-04-21-14-16 and S-04-21-14-16-D for VOCs and SVOCs
						End of Boring
20						

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: M. Miller

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-04-27-A

Completion Date: 10/24/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	44					Gray / brown gravel FILL with silt Stiff, dry, brown silt FILL	
5	48	48				FILL	With concrete (5") Gray, fine grained sand FILL Grades to medium grained with few gravels Dark brown silty clay FILL	Stiff drilling
	12	12						Geoprobe refusal at 9' Offset 5' west End of Boring
10								
15								
20								

Completion Depth: 9.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: M. Miller

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-04-27-B

Completion Date: 10/24/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	44	5.0			FILL	Medium stiff, dry, reddish brown, fine grained silt FILL with gravel	* Relocated 5 feet west of original boring
							Becomes loose	1150 Sample S-04-27-0-2 for VOCs and SVOCs
			4.9				With wood fragments With orange concrete	
5	48	46	8.5			ML	Brown SILT with few gravel	1155 Sample S-04-27-4-6 for VOCs and SVOCs
						SM	Dry to moist, fine grained silty SAND	
			5.0			CL	Stiff, dark brown CLAY	
						SP	Dark gray SAND	
						CL	CLAY	
10	48	32	1.7			SP	Dry to moist, dark gray, fine grained SAND with some clayey silt	
			2.7					
	48	48	1.7			CL-ML	Stiff, dark brown silty CLAY	
						SP	Slightly moist, dark gray, banded color, fine grained SAND	1200 Sample S-04-27-14-16 and S-04-21-14-16-D for VOCs and SVOCs
15			2.0					
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: M. Miller

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▮ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-04-28

Completion Date: 10/30/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	USCS	DESCRIPTION	NOTES
				FILL	Loose, light gray gravel (1 - 1 1/2") FILL	
	48	44	4.4	CL-ML	Stiff, reddish brown silty CLAY	0950 Sample S-04-28-1-3 for VOCs, SVOCs, metals, and PCBs
			1950	ML-CL	Becomes medium stiff and light brown Medium stiff, brown, fine grained clayey SILT	
5	48	48	1640		Becomes loose and light brown Stiff, wet, brown, mottled silty CLAY	
			9999+	CL-ML	Becomes more silty	
10	48	48	9999+		Becomes soft, wet, and dark gray	with hydrocarbon staining
			4795	SP	Loose, dark gray, fine grained SAND	*Liner jammed and could not log 12' - 14' section of the run
15	48	24	9999+			1000 Sample S-04-28-14-16 for VOCs, SVOCs, metals, and PCBs
						End of boring
20						

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-04-29

Completion Date: 10/28/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	46	0.0			FILL	Loose, light gray gravel FILL Firm, dark gray silty clay FILL	1000 Sample S-04-29-1-3-EB for VOCs, SVOCs, metals, and PCBs 1150 Sample S-04-28-1-3 for VOCs, SVOCs, metals, and PCBs
			0.0				Becomes medium stiff and wet with brick fragments	
5	48	40	0.0					1200 Sample S-04-29-6-8 for VOCs, SVOCs, metals, and PCBs
			0.0				Becomes soft and black / dark gray	
10	48	48	0.0					
			0.0					
	48	48	0.0			SP	Loose, wet, dark gray, fine grained SAND With clay seam	
15			0.0			SP	Black, fine grained SAND	1205 Sample S-04-29-14-16 for VOCs, SVOCs, metals, and PCBs
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-05-12

Completion Date: 11/6/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	USCS	DESCRIPTION	NOTES
				ASPHALT	Asphalt	
	48	48	10.1	FILL	Gravelly silty sand FILL with some clay	
			57.6		Stiff, dark brown silty clay FILL with brick and cinders	1050 Sample S-05-12-1-3 and S-05-12-1-3-D for VOCs, SVOCs, metals, and PCBs
5	48	48	46.8		Medium stiff, moist, dark brown clayey silt FILL with concrete fragments	
			49.2			
	48	48	45.2	ML	Loose, wet, dark brown/ gray sandy SILT	1105 Sample S-05-12-10-12 for VOCs, SVOCs, metals, and PCBs
10			55.0			with sheen
				CL-ML	Stiff, moist, dark brown silty CLAY	
	48	48	0.0	ML	Loose, dark gray / brown sandy SILT	1125 Sample S-05-12-14-16 for VOCs, SVOCs, metals, and PCBs
15			0.0			
						End of Boring
20						

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-05-13

Completion Date: 10/23/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ASPHALT	Asphalt (6")	
	48	40	5			FILL	Brown, silt FILL with gravel (1/2")	1100 Sample S-05-13-1-3 for VOCs and SVOCs
			5				Dry to moist, purple SILT with some brown color With red brick at 3.5' for 3"	1105 Sample S-05-13-1-3-MS and S-05-12-1-3-MSD for VOCs and SVOCs (2nd push 0-4' for MS/MSD) Purple color may indicate SantoFlex staining, as per Solutia
							Purple SILT with some red brick fragments	
5	48	48	285			CL-ML	Gray sandy SILT (lens) Dark brown silty CLAY with some gravel Grading stiff	
			22				Grades to clayey sandy SILT	Hydrocarbon staining present at 8'
	48	42	322			ML-CL	Moist, brown clayey SILT with oily residue	1110 Sample S-05-13-8-10 for VOCs and SVOCs
10			213			SM	Moist, brown, banded silty SAND	
						ML	Medium stiff, brown to purple sandy SILT	
	48	48	179			SM	Brown silty SAND Grades lighter brown	1115 Sample S-05-13-14-16 for VOCs and SVOCs
15			70					
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: M. Miller

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-05-14

Completion Date: 10/23/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	20	0.3			FILL	Gravel FILL with silt and red brick	1540 Sample S-05-14-0-4 for VOCs and SVOCs
5	48	20	1.8			ML	Moist to wet, dark brown clayey sandy SILT	soft drilling 4' - 8' 1550 Sample S-05-14-4-8-EB for VOCs and SVOCs 1600 Sample S-05-14-4-8 for VOCs and SVOCs
10	48	32	0.5 9.0				With no clay	
	48	22	25			SM	Moist to wet, dark brown, medium to fine grained silty SAND	1610 Sample S-05-14-14-16 for VOCs and SVOCs
15								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: M. Miller

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-05-15

Completion Date: 10/24/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	41	6.0 5.0			TOPSOIL	Grass cover, TOPSOIL with stiff, moist, dark brown clay	1430 Sample S-05-15-1-3 for VOCs and SVOCs
							Tan, medium to coarse grained sand FILL	
5	48	24	2.7 7.3			FILL	Cinder FILL with moist to wet, black silty clay	
	48	48	16.0			CL	Moist to wet, dark gray, medium plastic CLAY	
10			572				With oily residue / sheen	1455 Sample S-05-15-10-12 for VOCs and SVOCs strong hydrocarbon odor
	48	36	32.6			SM	Moist to wet, dark gray, fine grained sandy SILT or silty SAND with oil residue	1505 Sample S-05-15-14-16-EB for VOCs and SVOCs 1505 Sample S-05-15-14-16 for VOCs and SVOCs * Recovery recorded for the 12-16 foot run is an approximation
15			50.8					End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: M. Miller

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-05-16-A

Completion Date: 10/24/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48					FILL	Crushed CONCRETE Stiff, slightly moist, dark brown CLAY	Very stiff drilling all the way. Refusal at 4 feet due to concrete footing Offset 1 foot End of Boring
5								
10								
15								
20								

Completion Depth: 4.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: M. Miller

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-05-16-B

Completion Date: 10/27/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						FILL	Loose, light gray gravel FILL	Relocated 1 foot from original location
	48	40	21.1			CL-ML	Medium stiff, dark brown silty CLAY with gravel	1345 Sample S-05-16-1-3 for VOCs and SVOCs
			153				Becomes black	1350 Sample S-05-16-1-3-MS and S-05-16-1-3-MSD for VOCs and SVOCs
5	48	44	678				Becomes soft, wet	
			9999+			ML	Loose, wet, black sandy SILT	1355 Sample S-05-16-7-8 for VOCs and SVOCs
	48	48	40.6					
10			67.3			SP	Loose, dark gray, fine grained SAND	
	48	48	868				Becomes very wet and black	1400 Sample S-05-16-14-16 for VOCs and SVOCs
15			7.6					
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-05-SMP277

Completion Date: 11/10/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	USCS	DESCRIPTION	NOTES
				ASPHALT	ASPHALT (2")	
	48	40	3.6	FILL	Loose, light brown / brown, sandy, gravelly clay FILL with concrete fragments	Boring located adjacent to Department 277 Sump
			18.5		Medium stiff, brown silty clay FILL with gravel	1430 Sample S-05-SMP277-01-1-3 for VOCs and SVOCs
5	48	44	28.5		With cinders and gravel (1/8 - 1/2")	
			34.8	CL-ML	Becomes loose with large cinders (1 1/2")	
					Stiff, dark brown silty CLAY with gravel	
			143	SM	Loose, light to dark brown, fine grained silty SAND	
10	48	44	180		Loose, moist, light brown, fine grained silty SAND with dark brown banding	1455 Sample S-05-SMP277-01-9-11 for VOCs and SVOCs
					With no banding at 11'	with staining
	48	46	325		Becomes dark brown with some medium stiff clay	
15			403			1500 Sample S-05-SMP277-01-14-16 for VOCs and SVOCs
						End of Boring
20						

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-06-06

Completion Date: 10/30/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	USCS	DESCRIPTION	NOTES
	48	40	4.3	FILL	Loose, light gray gravel FILL with black asphalt Loose, brown, fine grained sandy silt FILL	0905 Sample S-06-06-1-3 for VOCs, SVOCs, metals, and PCBs
			18.6		Loose, moist, black silty sand FILL with gravel	
5	48	46	7.0	FILL	Loose, black, coarse grained gravel FILL	
				ML-CL	Dark gray clayey SILT	
			10.1	CL-ML	Medium stiff, moist, dark gray silty CLAY Becomes soft and black Becomes firm	0910 Sample S-06-06-6-8 for VOCs, SVOCs, metals, and PCBs
10	48	28	5.5	SM	Loose, moist, black/gray, fine grained silty SAND	
			8.4		Becomes brown	
	48	44	3.8	CL-ML	Soft, wet silty CLAY	0930 Sample S-06-06-14-16 and S-06-06-14-16-D for VOCs, SVOCs, metals, and PCBs
15			6.0	SM	Loose, light brown, fine grained silty SAND	
						End of Boring
20						

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-06-07

Completion Date: 10/30/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	USCS	DESCRIPTION	NOTES
	48	40	9999+	FILL	Light gray gravel FILL (1-1/2")	
				CL-ML	Medium stiff, brown / light brown silty CLAY with gravel	0810 Sample S-06-07-1-3-EB for VOCs, SVOCs, metals, and PCBs 0820 Sample S-06-07-1-3 for VOCs, SVOCs, metals, and PCBs
			9999+		Becomes dark brown	
				SM	Loose, dry, black silty SAND with medium grained gravel	
5	48	40	3538	CL-ML	Medium stiff, black / dark gray, mottled silty CLAY	with hydrocarbon odor
			1286			
	48	38	9999+		Becomes moist	0840 Sample S-06-07-9-11 for VOCs, SVOCs, metals, and PCBs
10			9999+	SM	Loose, moist, black, fine grained silty SAND	
	48	48		CL-ML	Soft, wet, dark gray silty CLAY	
				GP	Loose, wet, dark brown, coarse grained GRAVEL	
			9999+	SM	Loose, wet, dark gray / black, fine grained silty SAND	with hydrocarbon staining and odor
				CL-ML	Medium stiff, wet, dark gray silty CLAY	
15			1278	ML	Loose, moist, dark gray sandy SILT	0845 Sample S-06-07-14-16 for VOCs, SVOCs, metals, and PCBs
						End of Boring
20						

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON).LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-06-08

Completion Date: 10/30/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	40	3.7 3.1			FILL	Light gray gravel FILL with asphalt and brick fragments Loose, dark brown silty sandy FILL with gravel and concrete fragments	1325 Sample S-06-08-1-3 for VOCs, SVOCs, metals, and PCBs
5	48	36	5.7 4.2				Becomes light tan Becomes wet with brick fragments	1335 Sample S-06-08-8-10 and S-06-08-8-10-D for VOCs, SVOCs, metals, and PCBs with hydrocarbon odor
10	48	44	4.0 1.4			ML	Loose, wet, brown sandy SILT Becomes stiff	
15	48	48	2.1 3.1				Becomes soft and very wet	1340 Sample S-06-08-14-16 for VOCs, SVOCs, metals, and PCBs
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-06-09

Completion Date: 10/30/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	42	2.0			FILL	Loose, light gray gravel FILL Loose, black, fine grained sandy silt FILL with gravel	1040 Sample S-06-09-1-3-EB for VOCs, SVOCs, metals, and PCBs 1100 Sample S-06-09-1-3 for VOCs, SVOCs, metals, and PCBs
			2.0				Becomes brown	
5							With more gravel	
	48	48	3.2			ML-CL	Medium stiff, brown, fine grained clayey SILT	1115 Sample S-06-09-9-8 for VOCs, SVOCs, metals, and PCBs
			2.5				Becomes moist and light brown	
			2.2			ML	Loose, gray, fine grained sandy SILT	
						ML-CL	Soft, wet, gray clayey SILT	
10	48	40				SM	Loose, brown, fine grained silty SAND	
			2.3					
	48	44	1.3			SP	Loose, dark gray / black, fine grained SAND	1130 Sample S-06-09-14-16 for VOCs, SVOCs, metals, and PCBs
15			0.5					
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-06-10

Completion Date: 10/30/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	USCS	DESCRIPTION	NOTES
	48	40	2.3	FILL	Loose, light gray gravel FILL	
					Stiff, brown silty clay FILL	
			2.5		With gravel FILL (1")	1420 Sample S-06-10-1-3 for VOCs, SVOCs, metals, and PCBs
				ML	Loose, fine grained sandy SILT	1425 Sample S-06-10-1-3-MS and S-06-10-1-3-MSD for VOCs, SVOCs, metals, and PCBs
5	48	40	1.5		Medium stiff, brown, mottled silty CLAY	
					With large gravel (1-1 1/2")	
			1.5			
	48	40	11.1	CL-ML		
10						1440 Sample S-06-10-10-12 for VOCs, SVOCs, metals, and PCBs
			35.8		Light gray gravel (2" layer) Becomes more moist and silty	
	48	46	16.1			
						1450 Sample S-06-10-14-16 for VOCs, SVOCs, metals, and PCBs
15			9999+	SP	Loose, brown, fine grained SAND	with hydrocarbon odor
						End of Boring
20						

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-07-14

Completion Date: 10/28/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ASPHALT	ASPHALT (2")	
							Light brown sandy gravel FILL	
	48	40	0.0				Medium stiff, moist, dark brown / black sandy silty clay FILL with gravel	1000 Sample S-07-14-1-3 and S-07-14-1-3-D for VOCs, SVOCs, metals, and PCBs
			0.0				Becomes dark brown	
5			0.0			FILL	With brick fragments and concrete	
	48	40					Medium stiff, moist, dark gray, fine grained clayey sand FILL with brick fragments	
			0.0					
			0.0					
10	48	40				CL	Soft, wet, dark gray CLAY	1025 Sample S-07-14-10-12 for VOCs, SVOCs, metals, and PCBs with odor
			0.0					
						SM	Loose, wet, black / gray, fine grained silty SAND	
			70.4			CL-ML	Soft, wet, dark gray silty CLAY	
	48	40						
						SP	Loose, dark gray / black, fine grained SAND	
15			1330					1030 Sample S-07-14-14-16 for VOCs, SVOCs, metals, and PCBs
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-07-15

Completion Date: 10/29/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	42	10.1			FILL	Loose, dry, dark brown, medium to fine grained gravelly silt FILL	0935 Sample S-07-15-1-3 for VOCs, SVOCs, metals, and PCBs
			8.5				Becomes light gray / brown silt FILL Cinder FILL with silt	
5	48	48	7.4			ML-CL	Stiff, brown clayey SILT with few gravels Becomes dark brown	0945 Sample S-07-15-6-8 for VOCs, SVOCs, metals, and PCBs
			10.8					
10	48	48	5.5			CL-ML	Stiff, moist, dark brown silty CLAY Becomes light brown / gray	
			8.7					
						SP	Light brown, fine grained SAND	
						CL	Soft, moist, mottled CLAY	
	48	46	13.7			SP	Brown, fine grained SAND	0955 Sample S-07-15-14-16 for VOCs, SVOCs, metals, and PCBs
						CL	Stiff, moist, brown CLAY	
15			4.4			SP	Tan, fine grained SAND	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: M. Miller

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▮ NX Wireline Core Barrel
⊠ Geoprobe Macro Sampler
ATD - At time of drilling

Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-07-16

Completion Date: 10/28/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	USCS	DESCRIPTION	NOTES
	48	42	0.0	FILL	Loose, light gray / brown gravel FILL Very stiff, brown silty clay FILL Loose, moist, sandy silty FILL with red brick	1435 Sample S-07-16-1-3 for VOCs, SVOCs, metals, and PCBs
				CONCRETE	CONCRETE with gravel	
			0.0		Loose, moist, dark brown, coarse grained gravel FILL Stiff, moist, brown clayey silt FILL	
5	48	42	0.0	FILL	Loose, moist, light brown, fine grained sandy silt FILL	
			0.0		Loose, moist, light brown, fine grained silty sand FILL	1445 Sample S-07-16-6-8 for VOCs, SVOCs, metals, and PCBs
					Dark brown, coarse grained gravel FILL	
10	48	46	0.0	SM	Loose, moist, light brown, fine grained silty SAND	
			0.0		Becomes wet	
	48	48	0.0	SP	Loose, wet, light brown, medium grained SAND	
				ML-CL	Firm, wet, brown clayey SILT	1450 Sample S-07-16-14-16 for VOCs, SVOCs, metals, and PCBs
15			0.0	SP	Wet, brown, medium grained SAND	
						End of Boring
20						

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-07-17

Completion Date: 10/28/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	42	0.0			FILL	Loose, dark brown silty clay FILL with gravel fragments	
						CONCRETE	orange / gray CONCRETE with gravel	1505 Sample S-07-17-1-3 for VOCs, SVOCs, metals, and PCBs
			0.0			FILL	Brown silty clay FILL with brick fragments, concrete, sand and gravel	
5	48	40	0.0			SM	Loose, brown, fine grained silty SAND	
			0.0				Becomes medium grained	1515 Sample S-07-17-6-8 for VOCs, SVOCs, metals, and PCBs
							Becomes wet	
10	48	48	0.0			ML-CL	Soft, wet, dark brown / gray clayey SILT	
							Becomes stiff	
			0.0				Becomes soft and black	
	48	48	0.0			SM	Loose, wet, dark gray / brown, fine grained silty SAND	
							Becomes black	1520 Sample S-07-17-14-16 and S-07-17-14-16-D for VOCs, SVOCs, metals, and PCBs
15			0.0			CL-ML	Stiff, moist, dark brown silty CLAY	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-07-18

Completion Date: 10/29/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	USCS	DESCRIPTION	NOTES
	48	26	4.7	FILL	Light gray silty gravel FILL	
			6.8	SP	Loose, moist, tan, coarse grained SAND	1030 Sample S-07-18-1-3-EB for VOCs, SVOCs, metals, and PCBs 1045 Sample S-07-18-1-3 for VOCs, SVOCs, metals, and PCBs
5	48	48	6.1			
			111	CL-ML	Stiff, moist, brown silty CLAY Becomes granular	
	48	48	69.2			
10			1935	ML	Grades to sandy SILT or silty SAND	1105 Sample S-07-18-10-12 for VOCs, SVOCs, metals, and PCBs
	48	42	6000	SP	Coarse grained SAND lens	
			113	SM	Wet, brown, fine grained silty SAND with green tint	1125 Sample S-07-18-14-16 for VOCs, SVOCs, metals, and PCBs
15						End of Boring
20						

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: M. Miller

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-07-19

Completion Date: 10/29/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						FILL	Loose, light gray gravel FILL	
						SP	Loose, moist, light brown, medium grained SAND	
	48	36	5.9 4.9			CL	Medium stiff, moist, dark brown silty sandy CLAY with gravel	1455 Sample S-07-19-1-3 for VOCs, SVOCs, metals, and PCBs
5	48	36	5.6 9.6			ML-CL	Soft, wet, brown clayey SILT	
							Soft, loose, brown / tan, fine grained silty SAND with clay	
10	48	42	411 607			SM		1505 Sample S-07-19-10-12 and S-07-19-10-12-D for VOCs, SVOCs, metals, and PCBs
	48	46	22.9			ML-CL	Soft, wet, dark brown, clayey SILT	
15			264			SP	Loose, light brown fine grained SAND Becomes silty	1510 Sample S-07-19-14-16 for VOCs, SVOCs, metals, and PCBs
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-07-20

Completion Date: 10/28/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	48	0.0			FILL	Loose, dark brown silty sand FILL with gravel (1/4 - 1/2")	0825 Sample S-07-20-1-3 for VOCs, SVOCs, metals, and PCBs
							Becomes light brown	
			0.0			ML-CL	Firm, brown clayey SILT	0830 Sample S-07-20-1-3-MS and S-07-20-1-3-MSD for VOCs, SVOCs, metals, and PCBs
						ML	Loose, tan / brown, fine grained sandy SILT Become sandy	
5	48	46	0.0			SM	Loose, moist, light brown, fine grained silty SAND	0855 Sample S-07-20-6-8 for VOCs, SVOCs, metals, and PCBs
			0.0				Becomes more silty	
10	48	44	0.0					
			0.0					
	48	46	0.0			ML	Loose, black sandy SILT with gravel	
						SP	Light brown, fine grained SAND	0900 Sample S-07-20-14-16 for VOCs, SVOCs, metals, and PCBs
15			0.0				Becomes wet and brown	
						ML	Loose, wet, black, fine grained sandy SILT	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⧓ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-04

Completion Date: 10/27/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	40	5.8			FILL	Gravel and silty sand FILL (1-1 1/2" size)	0855 Sample S-08-04-1-2 for PCBs 0900 Sample S-08-04-1-2-MS and S-08-04-1-2-MSD for PCBs
			70.8				Becomes brown with brick fragments Becomes moist and black	0905 Sample S-08-04-3-4 for PCBs
								End of Boring
5								
10								
15								
20								

Completion Depth: 4.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-05

Completion Date: 10/27/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	46	5.5			FILL	Loose, light brown silty sand FILL with gravel	0915 Sample S-08-05-1-2-EB for PCBs 0925 Sample S-08-05-1-2 for PCBs
			122			CL-ML	Dark brown / black silty CLAY with gravel Becomes moist and black	with odor 0930 Sample S-08-05-3-4 for PCBs
5								End of Boring
10								
15								
20								

Completion Depth: 4.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-06

Completion Date: 10/27/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	44	4.9			FILL	Loose, light brown silty sandy gravel FILL	0940 Sample S-08-06-1-2 for PCBs
			15.3			CL	Loose to medium stiff, black, fine grained silty sandy CLAY with gravel Becomes moist	with odor 0945 Sample S-08-06-3-4 and S-08-06-3-4-D for PCBs
5								End of Boring
10								
15								
20								

Completion Depth: 4.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-07

Completion Date: 10/27/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	48	6.1			FILL	Loose, light brown silty sand FILL with gravel	
							Becomes black	0950 Sample S-08-07-1-2 for PCBs
			33.7			SM	Loose, black, fine grained silty SAND with some moist clay	0955 Sample S-08-07-3-4 for PCBs
								End of Boring
5								
10								
15								
20								

Completion Depth: 4.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

⧓ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-08

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
							Completion Date: 10/27/03 Casing Elevation: N/A Ground Elevation: N/A	
	48	44	7.4			FILL	Loose, light brown silty SAND	
							Becomes black and medium grained	1010 Sample S-08-08-1-2 for PCBs
			177			SM	Loose, black silty SAND	
							Becomes clayey	1015 Sample S-08-08-3-4 for PCBs
								End of Boring
5								
10								
15								
20								

Completion Depth: 4.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⧓ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-09

Completion Date: 10/27/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	40	4.5			FILL	Loose, light gray gravel (1-1 1/2") FILL	
							Loose, moist, brown silty sand FILL	1020 Sample S-08-09-1-2 for PCBs
							Light gray gravel FILL	
							Loose, brown silty sand FILL	
			4.6				Becomes wet, black, coarse grained gravel FILL	1025 Sample S-08-09-3-4 for PCBs
5								End of Boring
10								
15								
20								

Completion Depth: 4.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-10

Completion Date: 10/27/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	40	6.1			FILL	Loose gravel (1 - 1 1/2") FILL Loose, dark brown / black, fine grained silty sandy FILL	1035 Sample S-08-10-1-2 and S-08-10-1-2-D for PCBs
			6.7				Becomes wet and coarse grained	1040 Sample S-08-10-3-4 for PCBs
								End of Boring
5								
10								
15								
20								

Completion Depth: 4.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-11

Completion Date: 10/27/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	36	5.4			FILL	Loose, light gray gravel (1 - 1 1/2") FILL	
						SM	Black, fine grained silty SAND	1045 Sample S-08-11-1-2 for PCBs
			8.5				With coarse gravel Becomes wet	1050 Sample S-08-11-3-4 for PCBs
								End of Boring
5								
10								
15								
20								

Completion Depth: 4.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-12

Completion Date: 10/27/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	42	6.1			FILL	Loose, light gray gravel FILL	
							Loose, black, fine grained silty sand FILL with gravel	1100 Sample S-08-12-1-2 for PCBs
			9.8				Becomes wet and coarse grained	1105 Sample S-08-12-3-4 for PCBs
5								End of Boring
10								
15								
20								

Completion Depth: 4.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-13

Completion Date: 10/27/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	48	7.2			FILL	Loose, light gray gravel FILL	
							Brown silty sand FILL	1115 Sample S-08-13-1-2-EB for PCBs 1125 Sample S-08-13-1-2 for PCBs
			101				Becomes black	1130 Sample S-08-13-3-4 for PCBs
5								End of Boring
10								
15								
20								

Completion Depth: 4.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-14

Completion Date: 10/27/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	48	10.2			FILL	Loose, light gray gravel FILL	
							Loose, brown silty sand FILL	1135 Sample S-08-14-1-2 for PCBs 1140 Sample S-08-14-1-2-MS and S-08-14-1-2-MSD for PCBs
							With brick fragments and gravel	
			144				Becomes black	1145 Sample S-08-14-3-4 for PCBs
								End of Boring
5								
10								
15								
20								

Completion Depth: 4.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-15

Completion Date: 10/27/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	46	6.7			FILL	Loose, light gray gravel FILL	
						SM	Loose, brown silty SAND with gravel	1150 Sample S-08-15-1-2 for PCBs
			63.9				Becomes wet and black with gravel	1155 Sample S-08-15-3-4 and S-08-15-3-4-D for PCBs
								End of Boring
5								
10								
15								
20								

Completion Depth: 4.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▮ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-16

Completion Date: 11/3/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	46	2.1			FILL	Loose, light gray gravel FILL Moist, black silty sandy gravel FILL	1515 Sample S-08-16-1-2 for PCBs
			2.5					
5	48	46	1.4				Becomes wet	1520 Sample S-08-16-5-6 for PCBs
			17.8			CL-ML	Stiff, brown silty CLAY	
	48	48	87.5			SM	Moist, dark gray, fine grained silty SAND	1525 Sample S-08-16-9-10 for PCBs
10							Becomes black Becomes wet and gray with more silt	
			22.3			CL-ML	Dark gray silty CLAY	
								End of Boring
15								
20								

Completion Depth: 12.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-17

Completion Date: 11/4/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	30	4.2			FILL	Light brown gravel FILL with trace silty sand	1125 Sample S-08-17-1-2 for PCBs
			3.9				Black clayey silty sand FILL with some gravel Wood FILL	
5	48	48	44.0			CL-ML	Firm moist, dark brown silty CLAY with gravel Becomes sandy with more gravel	1130 Sample S-08-17-5-6 for PCBs
			228				Very firm, moist, black silty CLAY	
						FILL	Moist gravel FILL	
10	36	36	37.1			CL-ML	Firm, light brown silty CLAY	1135 Sample S-08-17-9-10 for PCBs
			30.4					End of Boring
15								
20								

Completion Depth: 11.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: K. Fletcher

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-18

Completion Date: 11/4/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	40	1.8				Light brown silty sand FILL with gravel	1405 Sample S-08-18-1-2 for PCBs
							Becomes dark brown with clay	
			5.4				With gravel (3")	
							Loose, dark brown gravel FILL (2")	
							Medium stiff, dark brown silty clay FILL with cinders	
5	48	48	4.7			FILL	Loose, dark brown gravel FILL	1415 Sample S-08-18-5-6 for PCBs
							Medium stiff to soft, wet, brown / black silty clay FILL	
			39.2					
							Loose, wet, dark brown gravel FILL	
	36	18	11.1					1425 Sample S-08-18-9-10 for PCBs
10			287			CL-ML	Gray silty CLAY with gravel	
						SM	Fine grained silty SAND	
								End of Boring
15								
20								

Completion Depth: 11.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: K. Fletcher

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-19

Completion Date: 11/4/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	40	2.8			FILL	Loose, light gray gravel FILL	
							Loose, black silty sandy gravel FILL with cinders	0910 Sample S-08-19-1-2 for PCBs 0915 Sample S-08-19-1-2-MS and S-08-19-1-2-MSD for PCBs
			6.0				Loose, moist, light brown, medium grained sand FILL	
5	48	48	8.5				Medium stiff, moist, black silty clay FILL	
							Wet, dark brown gravel FILL	0920 Sample S-08-19-5-6 and S-08-19-5-6-D for PCBs
			6.5					
	48	48	22.3			CL-ML	Stiff, moist, black silty CLAY	0930 Sample S-08-19-9-10 for PCBs
10						ML-CL	Stiff, moist, dark gray clayey SILT	
			21.5					End of Boring
15								
20								

Completion Depth: 12.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-20

Completion Date: 11/4/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	44	3.6 27.4			FILL	Loose, light brown gravel FILL with silty clay Dark brown, silty sandy gravel FILL With fewer gravel and trace clay	1015 Sample S-08-20-1-2 for PCBs
5	48	48	12.3 13.7				With more gravel and brick fragments	1020 Sample S-08-20-5-6 for PCBs
10	36	12	57.4			CL-ML	Firm moist, dark brown silty CLAY Becomes soft and black	1025 Sample S-08-20-9-10 for PCBs
								End of Boring
15								
20								

Completion Depth: 11.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: K. Fletcher

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⧓ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-22

Completion Date: 11/3/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	44	28.6			FILL	Loose, light gray gravel FILL	1555 Sample S-08-22-1-2 for PCBs
			7.8				Loose, black, gravelly silty sand FILL	with sweet odor
5	48	42	17.6				Medium stiff, moist, brown / dark gray silty clay FILL	1600 Sample S-08-22-5-6 for PCBs
			7.3				Gravelly silty clay FILL	with strong sweet odor
10	48	42	23.1			CL-ML	Stiff, black / dark gray silty CLAY	1610 Sample S-08-22-9-10 for PCBs
			39				Becomes very wet	
								End of Boring
15								
20								

Completion Depth: 12.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-23

Completion Date: 11/4/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	40	5.9			FILL	Loose, light gray gravel FILL Black / brown silty clay FILL with gravel	0950 Sample S-08-23-1-2 and S-08-23-1-2-D for PCBs
			7.5				Loose, wet, black gravel (1 - 1 1/2") FILL	
5	48	42	2.6					0955 Sample S-08-23-5-6 for PCBs
			2.4			CL-ML	Medium stiff, moist, dark gray silty CLAY	
	48	48	6.7				Becomes soft and wet	1000 Sample S-08-23-9-10 for PCBs
10			7.9					
								End of Boring
15								
20								

Completion Depth: 12.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-24

Completion Date: 11/4/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	40	7.6				Loose, light gray gravel FILL Stiff, black, silty sandy clay FILL with gravel and cinders	1445 Sample S-08-24-1-2 for PCBs
			4.4				Becomes brown mottled with gravel (1/2 - 1")	
5	48	44	7.1			FILL	Stiff, wet, dark gray silty clay FILL	1455 Sample S-08-24-5-6 for PCBs
			7.8				Loose, wet, black, coarse grained gravel FILL	
	36	36	2.3					1505 Sample S-08-24-9-10 for PCBs
10			3.8				Becomes larger (1/2 - 1")	
						CL-ML	Soft, wet, dark gray silty CLAY	
								End of Boring
15								
20								

Completion Depth: 11.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-25

Completion Date: 11/4/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	USCS	DESCRIPTION	NOTES
				ASPHALT	ASPHALT (2")	
			3.9		Light gray / black gravel FILL	
	48	46				1515 Sample S-08-25-1-2 and S-08-25-1-2-D for PCBs
					Reddish brown silty sand FILL	
			3.5		Loose, wet, black, coarse grained gravel FILL	
5			7.3	FILL	Medium stiff, dark gray silty clay FILL	
	48	48				1520 Sample S-08-25-5-6 for PCBs
			7.0			
			6.0		Loose, wet, coarse grained gravel (1/4 - 1") FILL	
	36	36				1525 Sample S-08-25-9-10 for PCBs
10			55	CL-ML	Stiff, moist, dark gray silty CLAY	
						End of Boring
15						
20						

Completion Depth: 11.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⧓ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-26

Completion Date: 11/5/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	48	3.2			FILL	Loose, gray large gravel FILL with silty sand	0850 Sample S-08-26-1-2 for PCBs
							Loose, black silty sand FILL	
							Becomes reddish brown sandy silt FILL with trace clay	
			2.8				Loose, black gravel FILL	
5	48	48	7.0				Loose, black silty clay FILL with gravel Loose, black silty sand FILL with gravel	0855 Sample S-08-26-5-6 for PCBs
							Firm, moist, gray silty clay FILL	
			42.9				Moist gravel FILL with silty clay	
	36	36	34.2			CL-ML	Firm, moist, gray silty CLAY	0900 Sample S-08-26-9-10 and S-08-26-9-10-D for PCBs
10			34.0			SM	Dark brown, fine grained silty sand	
								End of Boring
15								
20								

Completion Depth: 11.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: K. Fletcher

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-27

Completion Date: 11/5/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	40	10.6			FILL	Loose, brown silty sand FILL with trace clay and gravel	0935 Sample S-08-27-1-2 for PCBs
			12.3				Becomes moist With brick fragments	
5	48	40	10.2			CL-ML	Reddish silty CLAY with gravel	0940 Sample S-08-27-5-6 for PCBs
			7.5			SM	Loose, brown silty SAND with trace clay and gravel	
						CL-ML	Gray silty CLAY	
						SM	Loose, brown, silty SAND with trace clay and gravel	
10	36	30	10.3			SM	Loose, moist, gray, fine grained silty SAND	0950 Sample S-08-27-9-10 for PCBs
			10.2			CL-ML	Moist, gray silty CLAY	
								End of Boring
15								
20								

Completion Depth: 11.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: K. Fletcher

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-28

Completion Date: 11/5/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	40	5.1				Loose, wet, gray gravel FILL	
							Loose, moist, black silty sand FILL with coarse gravel	1005 Sample S-08-28-1-2-EB for PCBs 1020 Sample S-08-28-1-2 for PCBs
			4.6					
5	48	4	16.2			FILL	Becomes wet and clayey	1025 Sample S-08-28-5-6 for PCBs
							Wet, black silty clay FILL with coarse gravel and brick fragments	
			21.9					
	36	36	7.2				Becomes light brown Becomes stiff, moist, and light gray	1030 Sample S-08-28-9-10 for PCBs
10			8.5					
								End of Boring
15								
20								

Completion Depth: 11.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-29

Completion Date: 11/5/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	38	2.9			FILL	Loose, light gray gravel FILL Black / brown silty sandy gravel FILL with concrete fragments	1050 Sample S-08-29-1-2 for PCBs
			5.6				Loose, wet, black, coarse grained gravel FILL with brick and concrete fragments	
5	48	48	8.7			CL-ML	Stiff, wet, dark gray silty CLAY	1055 Sample S-08-29-5-6 for PCBs 1100 Sample S-08-29-5-6-MS and S-08-29-5-6-MSD for PCBs
			5.1					
	36	36	18.9			SM	Loose, dark gray, fine grained silty SAND	1105 Sample S-08-29-9-10 for PCBs
10						CL	Soft, wet, dark gray silty sandy CLAY	
			15.7			SM	Loose, dark gray, fine grained silty SAND	End of Boring
15								
20								

Completion Depth: 11.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-30

Completion Date: 11/5/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	36	2.3 2.7			FILL	Loose, light gray gravel FILL Loose, wet, black, coarse gravel FILL	1120 Sample S-08-30-1-2 for PCBs
5	48	40	3.4 6.0			CL-ML	Stiff, moist, brown / gray silty CLAY	1125 Sample S-08-30-5-6 for PCBs
						ML-CL	Soft, moist, brown / gray clayey SILT	
	36	36	4.8 15.2			CL-ML	Stiff, moist, brown silty CLAY	1130 Sample S-08-30-9-10 for PCBs
10						ML-CL	Loose, moist, brown / gray sandy clayey SILT	
								End of Boring
15								
20								

Completion Depth: 11.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-31

Completion Date: 11/6/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	USCS	DESCRIPTION	NOTES
	48	40	0	FILL	Loose, light gray gravel FILL Light brown silty sandy clay FILL	
			0		Moist, light brown sand FILL Black silty sand FILL with gravel	
5	48	46	0		Becomes wet	
			0		Medium stiff, moist, black silty clay FILL	
	48	48	0			
10			0	SM	Brown, loose, fine grained silty SAND	* PID readings may be affected by cold temperature
	48	48	0	CL-ML	Firm, moist, dark gray, silty CLAY	1535 Sample S-08-31-13-14 for PCBs
15			0	ML	Loose, brown / black, fine grained sandy SILT	
						End of Boring
20						

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON).LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-32

Completion Date: 11/7/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	USCS	DESCRIPTION	NOTES
					Loose, light gray gravel FILL	
			19.6		Loose, light brown silty sandy clay FILL with gravel	0840 Sample S-08-32-1-2-EB for PCBs 0855 Sample S-08-32-1-2 for PCBs
	48	40				
			20.1		Loose, moist, light brown, medium grained sand FILL	
5			*		Loose, moist, dark brown / black sandy gravel FILL with brick fragments	0900 Sample S-08-32-5-6 for PCBs
	48	48			Medium stiff, moist, black silty clay FILL	
			*	FILL	Loose, moist, black sandy clayey gravel FILL	
					Stiff, moist, black silty clay FILL	
			*			0905 Sample S-08-32-9-10 for PCBs
10	48	48			Medium stiff, moist, dark gray / gray silty clay FILL	
			*			
					Becomes stiff	
					Becomes soft and wet	
			*		Loose, wet, black clayey gravel FILL	0910 Sample S-08-32-13-14 and S-08-32-13-14-D for PCBs
	48	48		ML-CL	Moist, dark gray clayey SILT with some gravel	
15			*	ML	Dark gray sandy SILT	
					Becomes wet and black	
						End of Boring
						* PID needed to be recalibrated. No measurements taken
20						

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-33

Completion Date: 11/7/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	40	0			FILL	Loose, light gray gravel FILL	
			0				Dark brown clayey silt FILL	
5	48	40	0				Loose, moist, dark brown / black sandy gravel FILL	
			0				Medium stiff, moist, gray silty CLAY	
	48	40	0			CL-ML		
10			0				Becomes black and mottled	
	48	36	0				Becomes loose, moist, silty, and sandy	1025 Sample S-08-33-13-14 and S-08-33-13-14-D for PCBs
15						SP	Looes, brown, medium grained SAND	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: K. Fletcher

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-34

Completion Date: 11/7/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	48	0			FILL	Loose, light gray gravelly sandy clay FILL	
			334				Black silty sandy FILL with gravel	
5	48	48	0			ML	Brown sandy SILT with gravel	with sheen
			0				Becomes wet	
	48	40	0			CL-ML	Stiff, dark gray silty CLAY	
10			0				Becomes soft	
	48	40	0			ML	Loose, brown, fine grained sandy SILT	1050 Sample S-08-34-13-14 for PCBs 1055 Sample S-08-34-13-14-MS and S-08-34-13-14-MSD for PCBs
15			0					End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-35

Completion Date: 11/7/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	42	0			FILL	Loose, light gray gravel FILL Loose, brown / tan silty clayey gravel FILL with some sand	
			0				Black silty sand FILL with gravel	
5	48	40	0				With concrete fragments Loose, wet, black gravel FILL	
			0					
			0			CL-ML	Medium stiff, moist, dark gray silty CLAY	
10	48	40					Becomes brown / gray	
			0			ML-CL	Loose, soft, moist, brown clayey SILT	
	48		0				Becomes soft and wet	1110 Sample S-08-35-13-14-EB for PCBs
						CL-ML	Stiff, wet, brown silty CLAY	1135 Sample S-08-35-13-14 for PCBs
15			295			SP	Loose, light brown, fine grained SAND	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-08-36

Completion Date: 11/7/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	40	0			FILL	Loose, light gray gravel FILL Black silty sandy gravel FILL	1305 Sample S-08-36-1-2 for PCBs
			0					
5	48	48	0				Moist, black, fine grained sandy silt FILL with some clay and gravel Wet, black sandy gravel FILL with brick fragments	1310 Sample S-08-36-5-6 for PCBs
			0			CL-ML	Medium stiff, moist, black / dark gray silty CLAY Becomes soft Becomes stiff	
10	48	28	0					1315 Sample S-08-36-9-10 for PCBs
			0			ML-CL	Loose, wet, brown clayey SILT	
	48	48	0			CL-ML	Soft, wet, dark gray silty CLAY	1320 Sample S-08-36-13-14 for PCBs
15						SM	Loose, moist, dark gray / brown, fine grained silty SAND	
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-09-09-A

Completion Date: 10/21/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	48	0.1 0.5			FILL	Loose FILL with asphalt, gravel, and sandy silt Stiff, light brown, mottled clayey SILT with small gravel (<1/4")	1045 Sample S-09-09-2-3 for Mercury 1050 Sample S-09-09-2-3-MS and S-09-09-2-3-MSD for Mercury
5	12	12	0.4					Refusal at 5' due to former brick sewer system Offest 1 foot End of boring
10								
15								
20								

Completion Depth: 5.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: M. Miller

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-09-09-B

Completion Date: 10/21/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ASPHALT	ASPHALT	
	48	36				FILL	Stiff, dry to moist, dark brown silty clay FILL with gravel and red brick	* Offset 1 foot from original location
5	18	18	0.8					1200 Sample S-09-09-B-4-5 for Mercury
								Refusal at 5.5' due to former brick sewer system End of Boring
10								
15								
20								

Completion Depth: 5.50 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: M. Miller

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-09-10

Completion Date: 10/21/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ASPHALT	ASPHALT	
	48	36	5.2			FILL	Loose, light brown / gray silty sand FILL with gravel (1/2") and asphalt	1035 Sample S-09-10-0-2 and S-09-10-0-2-D for Mercury
			13				Brown, mottled silty clay FILL	
5	12	12	NR				Becomes loose and gray	NR = Not recorded Refusal at 5' End of Boring
10								
15								
20								

Completion Depth: 5.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: M. Miller

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-09-11

Completion Date: 10/21/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ASPHALT	ASPHALT	
	48	32	0.7			FILL	Light brown clayey silty sand FILL with gravel and asphalt	1000 Sample S-09-11-0-2 for Mercury
			2.7				becomes loose with concrete fragements With cinders (6")	
5	48	48	0.2			CL-ML	Stiff, moist, dark brown silty CLAY with gravel (1/2")	
			0.4				Becomes soft with less gravel	1010 Sample S-09-11-6-8 for Mercury
						SM	Soft, moist, brown silty SAND	
	24	24	0.4			CL	Stiff, brown CLAY with silt	1015 Sample S-09-11-9-10 for Mercury
10								End of Boring
15								
20								

Completion Depth: 10.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: M. Miller

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON).LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-09-12

Completion Date: 10/21/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ASPHALT	ASPHALT	
	48	36	0.0			FILL	Dry, brown silt FILL with gravel (1/2")	
							Gravel FILL with asphalt	0930 Sample S-09-12-2-3 for Mercury
							Dry, brown gravelly silty sand FILL with asphalt	
5	30	18						0935 Sample S-09-12-5-6-EB for Mercury
							Stiff, moist to wet, gray / brown silty clay FILL	0940 Sample S-09-12-5-6 for Mercury
								Refusal at 6.5'
								End of Boring
10								
15								
20								

Completion Depth: 6.50 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: M. Miller

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-09-13

Completion Date: 10/21/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	USCS	DESCRIPTION	NOTES
				ASPHALT	ASPHALT	
	48	30	1.0	FILL	Loose gravelly silty clay FILL	1315 Sample S-09-13-1-2 for Mercury
			3.1	CL-ML	Stiff, light brown / brown silty CLAY Becomes soft and wet	
5	48	48	0.7		Becomes very soft	
			1.1	SP	Loose, wet, brown, coarse grained SAND with gravel	1325 Sample S-09-13-6-7 for Mercury
	24	18	1.1	CL	Soft, wet, dark brown sandy CLAY with gravel Becomes black / dark brown	1330 Sample S-09-13-9-10 for Mercury
10						End of Boring
15						
20						

Completion Depth: 10.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-09-14

Completion Date: 10/21/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	48	1.0 0.9				Loose, gray FILL with gravel and asphalt Dry, light reddish brown silt FILL with gravel (1/4 - 1/2")	1100 Sample S-09-14-2-3 for Mercury
5	48	48	0.9 0.9			FILL	With cinders With red brick (3") With quartz gravel and sand Dry to moist, dark brown clayey silt FILL with gravel (<1/4")	1120 Sample S-09-14-6-8 for Mercury
	24		0.8				Gravel seam Becomes moist to wet	1125 Sample S-09-14-9-10 for Mercury
10								End of Boring
15								
20								

Completion Depth: 10.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: M. Miller

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-09-15

Completion Date: 10/21/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ASPHALT	ASPHALT	
	48	40	0.7			FILL	Loose, gravelly sandy FILL with concrete	
						ML-CL	Stiff, moist, brown clayey SILT	
			1.2				Becomes medium stiff	1340 Sample S-09-15-2-3 for Mercury
							Becomes stiff	
						SP	Loose, brown SAND with gravel	
5	48	36	1.8			ML-CL	Stiff, dark brown clayey SILT	1350 Sample S-09-15-5-6 for Mercury
			0.9				Becomes black / dark brown	
	24	24	0.7				Becomes very soft and wet	1355 Sample S-09-15-9-10 for Mercury
10								End of Boring
15								
20								

Completion Depth: 10.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-09-16

Completion Date: 10/21/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ASPHALT	ASPHALT	
			1.0			FILL	Loose sandy gravel FILL	
	48	36					Medium stiff, moist, brown silty CLAY	1405 Sample S-09-16-2-3 for Mercury 1410 Sample S-09-16-2-3-MS and S-09-16-2-3-MSD for Mercury
			0.7				Becomes soft	
5			1.1			CL-ML		1415 Sample S-09-16-5-6 for Mercury
	48	30					Becomes wet and dark brown / gray with gravel	
			0.8					
	24	24	1.6			ML-CL	Medium stiff, wet, dark gray clayey SILT with gravel	with odor 1420 Sample S-09-16-9-10 for Mercury
10								Refusal at 9.8' End of Boring
15								
20								

Completion Depth: 10.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-09-17

Completion Date: 10/21/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ASPHALT	ASPHALT	
			1.4			FILL	Loose, light brown silty clay FILL	
	48	36					Firm, light brown clayey SILT	1435 Sample S-09-17-2-3 for Mercury
			0.9				Becomes dark brown	
5			0.8			ML-CL	Becomes soft and wet with gravel	1440 Sample S-09-17-5-6 for Mercury
	48	36						
			0.9					1445 Sample S-09-17-7-8 and S-09-17-7-8-D for Mercury
								End of Boring *Rig broken
10								
15								
20								

Completion Depth: 8.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-09-18

Completion Date: 10/22/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ASPHALT	ASPHALT	
	48	36	2.0				Loose, black / gray gravel FILL with asphalt Stiff, brown silty clay FILL with brick fragments	0845 Sample S-09-18-0-2-EB for Mercury 0900 Sample S-09-18-0-2 for Mercury
			5.6				Becomes medium stiff	
5	48	40	0.6			FILL	Soft, wet, dark brown clayey silt FILL with gravel (1 - 1 1/2") and light brown sand	
			0.7					0905 Sample S-09-18-6-7 for Mercury
	24		1.0				Soft, wet, dark brown clay FILL with gravel (1 - 1 1/2") and brick	0910 Sample S-09-18-9-10 for Mercury
10								End of Boring
15								
20								

Completion Depth: 10.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-09-19

Completion Date: 10/22/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ASPHALT	ASPHALT	
						FILL	Loose gravel FILL with concrete	0915 Sample S-09-19-0-2-EB for Mercury
	48	44	0.4			ML-CL	Stiff, brown clayey SILT	0920 Sample S-09-19-0-2 for Mercury
			0.6				Becomes moist	
							Stiff, brown silty CLAY	
5	48	42	0.8			CL-ML	With gravel (1/2 - 1")	0925 Sample S-09-19-6-7 for Mercury
			0.6				Becomes moist	
	24	24	0.7				Becomes soft and wet	0930 Sample S-09-19-9-10 for Mercury
10								End of Boring
15								
20								

Completion Depth: 10.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▮ NX Wireline Core Barrel
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.
ATD - At time of drilling

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-09-20

Completion Date: 10/22/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						ASPHALT	ASPHALT	
							Sandy gravel FILL	
			2				Firm, brown silty clay FILL	
	48	44						0940 Sample S-09-20-2-3 and S-09-20-2-3-D for Mercury
			1.5			FILL		
			1.1					
5	36	36					Soft, wet, dark brown clayey silt FILL with gravel	
			1.0					0950 Sample S-09-20-6-7 for Mercury
								Refusal at 7'
								End of Boring
10								
15								
20								

Completion Depth: 7.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▮ NX Wireline Core Barrel
ATD - At time of drilling

▣ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-09-21

Completion Date: 10/31/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	44	3.4				Dry, brown gravel FILL with silt and asphalt	
			6.0				Very Stiff, tan / brown clayey silt FILL with gravel (<1/8")	
5	48	46	5.6				Grades to silty clay	
			4.5			FILL	Sand lens (1") Moist, dark brown silty clayey gravel FILL	
							Grading to silty clay	
10	48	42	2.5				Wet, dark brown / black silty clayey gravel FILL	
			5.8					
	36	36	44.6					1050 Sample S-09-21-13-14 for Mercury
15			14.8			CL	Very soft, wet, dark brown, plastic CLAY	End of Boring
20								

Completion Depth: 15.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: M. Miller

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-09-22

Completion Date: 10/31/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	USCS	DESCRIPTION	NOTES
				ASPHALT	ASPHALT	
	48	32	7.0	FILL	Stiff, brown silty clay FILL	
			11.8		Becomes mottled	
5	48	40	9.2		Becomes dark brown	
			10.2		Gravel lens with some sand	Stiff drilling
				CONCRETE	Red BRICK or CONCRETE	
				CL	Stiff, moist, dark brown CLAY	1125 Sample S-09-22-7-8 for Mercury
10	48	40	17.9		Becomes soft and very moist (1')	
			18.9		With some gravel (1/8")	
	36	36	25			1130 Sample S-09-22-13-14 for Mercury
			17.8		Becomes mottled	
15						End of Boring
20						

Completion Depth: 15.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: M. Miller

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⧓ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-09-23

Completion Date: 10/31/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
						FILL	Loose, light gray gravel (1 1/2" - 2") FILL	
	48	40	0.2			CL-ML	Stiff, brown, mottled silty CLAY	
			0.4				Becomes moist	
5	48	44	2.4			CL	Stiff, dark brown silty sandy CLAY with gravel	with odor
			1.2					1215 Sample S-09-23-7-8 for Mercury
	48	48	3.0			ML-CL	Soft, moist, black clayey SILT	
10			7.0				Becomes stiff (3") Becomes soft and wet	
	36	36	11.8					1220 Sample S-09-23-13-14 for Mercury
			15.7				Becomes light gray	
15								End of Boring
20								

Completion Depth: 15.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-09-24

Completion Date: 10/31/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	46	5.9			FILL	Gravelly silt FILL with cinders	
			12.5			CL-ML	Hard, dry, brown silty CLAY	
5	48	46	15.8				Becomes soft and moist Brown sandy SILT with gravel	
			18.5				Becomes very moist with more gravel	1240 Sample S-09-24-7-8 for Mercury
10	48	42	14.1			ML	With less gravel Becomes soft and very wet with more gravel	
			4.1					
	48	38	27.1				With less gravel	1245 Sample S-09-24-13-14 for Mercury
15			22.8					
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: K. Fletcher

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-12-05

Completion Date: 10/24/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	37	5.3			FILL	Crushed, white gravel FILL with some brown coloration	
							With some silt	1025 Sample S-12-05-1-3 for VOCs and SVOCs
			3.7				Grades to black Cinder FILL	
5	48	42	2.2				Crushed gravel FILL	
			6.8			ML	Medium stiff, dry, brown, very fine grained SILT	1050 Sample S-12-05-6-8 for VOCs and SVOCs
			2.5				Becomes wet	Temporary loss of probe rod
10	48	35	5.9			SP	Moist, brown, fine grained SAND	1055 Sample S-12-05-12-16 for VOCs and SVOCs
	48	23						
15			3.5					End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: M. Miller

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
⊠ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

ATD - At time of drilling

URS

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-12-06

Completion Date: 11/7/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	USCS	DESCRIPTION	NOTES
	48	46	0.0	FILL	Loose, gray gravel FILL with silty sand and brick fragments	
			0.0		Loose, moist, brown silty SAND	1500 Sample S-12-6-1-3-EB for VOCs, PCBs, SVOCs, metals, dioxins, and furans 1520 Sample S-12-6-1-3 for VOCs, PCBs, SVOCs, metals, dioxins, and furans
5	48	38	0.0	SM		
			0.0		Becomes dark brown Becomes very moist	1530 Sample S-12-6-6-8 for VOCs, PCBs, SVOCs, metals, dioxins, and furans
10	48	48	0.0			
			0.0		With dark brown banding and staining	
	48	42	0.0	SP	Loose, moist, light brown SAND	
15			0.0		Trace gravel (1") Trace clay	1540 Sample S-12-6-14-16 for VOCs, PCBs, SVOCs, metals, dioxins, and furans
						End of Boring
20						

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-12-07-A

Completion Date: 11/3/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	30	3.6 3.5				Loose, light brown, gravelly silty sandy CLAY	
5	48	24	0.0 0.0			CL	Becomes wet with large gravel (1 - 2")	
10	48	18	5.1			CL-ML	Soft, loose, wet, brown silty CLAY with large gravel	
	6	0						Refusal at 12.5' due to large limestone gravel Offset 1 foot End of Boring
15								
20								

Completion Depth: 12.50 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling

☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-12-07-B

Completion Date: 11/5/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	USCS	DESCRIPTION	NOTES
				ASPHALT	ASPHALT	
				FILL	Loose, light gray gravelly (1 1/2 - 2") silty sand FILL	* Offset boring 1 foot from original location
	48	44	9.1		Loose, brown, fine grained silty SAND	1440 Sample S-12-7-1-3 for VOCs, PCBs, SVOCs, metals, dioxins, and furans
			22		Becomes light brown	
5			327		Becomes moist and brown	
	48	48		SM		
			258			with hydrocarabon odor
			1885		Becomes wet	1450 Sample S-12-7-8-10 for VOCs, PCBs, SVOCs, metals, dioxins, and furans with strong hydrocarbon odor
10	48	48				
			138		Soft, wet, brown, fine grained clayey SAND	
			111	SC	Becomes silty	with hydrocarbon staining
	48	48				with strong hydrocarbon odor
15			82			1500 Sample S-12-7-14-16 for VOCs, PCBs, SVOCs, metals, dioxins, and furans
				ML-CL	Stiff, dark brown clayey SILT	
						End of Boring
20						

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-12-08

Completion Date: 11/3/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	USCS	DESCRIPTION	NOTES
	48	36	0.0	FILL	Loose, light gray gravelly silty sandy FILL	0915 Sample S-12-8-1-3-EB for VOCs, PCBs, SVOCs, metals, dioxins, and furans
			0.1	SM	Loose, dry, black silty SAND with gravel Becomes moist	0950 Sample S-12-8-1-3 for VOCs, PCBs, SVOCs, metals, dioxins, and furans
				ML-CL	Loose, light brown clayey SILT	
5	48	34	0.0	CL-ML	Becomes very firm silty CLAY	
			0.0	ML-CL	Loose, moist, light brown clayey SILT	
	48	34	0.6			
10			11.4	SM	Loose, moist, light brown, fine grained silty SAND with orange / rust banding	1005 Sample S-12-8-10-12 for VOCs, PCBs, SVOCs, metals, dioxins, and furans
	48		5.5	CL-ML	Loose, moist, brown silty CLAY	
				SM	Moist, light brown, fine grained silty SAND	
				GC	Loose silty clayey GRAVEL	
15			8.8	SM	Moist, light brown, fine grained silty SAND with banding	1010 Sample S-12-8-14-16 for VOCs, PCBs, SVOCs, metals, dioxins, and furans
						End of Boring
20						

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: K. Fletcher

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-12-09

Completion Date: 11/10/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	46	1272			FILL	Loose, dry, gray silty sandy FILL with gravel	1040 Sample S-12-9-1-3 for VOCs, PCBs, SVOCs, metals, dioxins, and furans
						CL-ML	Firm, dark brown / black silty CLAY	
			28.1			SM	Loose, dry, black silty SAND with gravel	
5	48	44	3510			CL-ML	Medium stiff, brown silty CLAY	
			769				Becomes moist	
						SM	Wet, brown clayey silty SAND	1055 Sample S-12-9-8-10 for VOCs, PCBs, SVOCs, metals, dioxins, and furans
10	48	48	9999+				Becomes black stained	
			905			CL-ML	Firm, black stained silty CLAY	
							Becomes wet	
	48	48	45.3					
15			60.2			SM	Loose, moist, black silty SAND	1110 Sample S-12-9-14-16 for VOCs, PCBs, SVOCs, metals, dioxins, and furans
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: K. Fletcher

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
⊠ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-12-10

Completion Date: 11/6/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	46	0.0			FILL	Loose, light gray gravel FILL Loose, moist, black silty sandy clay FILL	
			0.0				Becomes reddish brown	1345 Sample S-12-10-1-3 for VOCs, PCBs, SVOCs, metals, dioxins, and furans
5	48	40	0.0				Soft, loose, moist, gray / brown clayey SILT	
			0.0				Becomes wet with some sand	1350 Sample S-12-10-6-8 for VOCs, PCBs, SVOCs, metals, dioxins, and furans
10	48	48	0.0			ML-CL	Becomes very soft and black	
			0.0				Becomes medium stiff and dark gray	
	48	48	0.0				Becomes very soft and wet	
15			0.0			SM	Loose, wet, brown, fine grained silty SAND With black banding	1400 Sample S-12-10-14-16 and S-12-10-14-16-D for VOCs, PCBs, SVOCs, metals, dioxins, and furans
								End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-12-11

Completion Date: 11/3/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	USCS	DESCRIPTION	NOTES
	48	42	4.3	FILL	Loose, light gray gravel FILL	
				CL	Light brown silty sandy CLAY with gravel (1 - 1 1/2") and concrete fragments	1045 Sample S-12-11-1-3 for VOCs, PCBs, SVOCs, metals, dioxins, and furans
			5.0	ML-CL	Loose, brown clayey SILT with trace fine grained sand	1050 Sample S-12-11-1-3-MS and S-12-11-1-3-MSD for VOCs, PCBs, SVOCs, metals, dioxins, and furans
5	48	44	3.4	SM	Loose, moist, light brown silty SAND with iron staining	
					Becomes tan and orange	
			4.2		Becomes black with gravel	
	48	48	5.3	ML-CL	Stiff, moist, brown clayey SILT	1115 Sample S-12-11-8-10 for VOCs, PCBs, SVOCs, metals, dioxins, and furans
10					with gravel (1/2 - 1")	
			1.8		Becomes soft and moist	
	48	48	4.6	ML	Soft, wet, brown clayey sandy SILT	
					Becomes very wet	
15			5.8			1130 Sample S-12-11-14-16 for VOCs, PCBs, SVOCs, metals, dioxins, and furans
						End of Boring
20						

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
☒ Geoprobe Macro Sampler

Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04

LOG OF BORING
S-12-12

Completion Date: 10/29/03
Casing Elevation: N/A
Ground Elevation: N/A

Depth In feet	Inches Driven	Inches Recovered	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
	48	30	7.9				Brown, coarse grained gravelly sand FILL with some clay and concrete fragments	1330 Sample S-12-12-0-2 for VOCs, PCBs, SVOCs, and metals 1335 Sample S-12-12-0-2-MS and S-12-12-0-2-MSD for VOCs, PCBs, SVOCs, and metals
			5.8				Becomes moist	
5	48	36	9.4			FILL	Becomes very coarse	sheen present 1400 Sample S-12-12-6-8 for VOCs, PCBs, SVOCs, and metals
			613				Black wood FILL	strong solvent-like odor
10	48	12	9999+				Wet, brown gravel FILL with clayey sand	
			283				With brick fragments	
	48	40	1019			CL-ML	Soft, wet, dark gray / black silty CLAY	1410 Sample S-12-12-14-16 for VOCs, PCBs, SVOCs, and metals
15			9999+				Becomes medium stiff	
						ML-CL	Soft, loose, wet, dark gray clayey SILT	End of Boring
20								

Completion Depth: 16.00 Ft.
Project No.: 21561388.00000
Project Name: WGK Solutia, CMS Phase II
Drilling Contractor: Roberts Environmental Drilling Inc
Drilling method: Geoprobe
Logged by: A. Williamson

URS

Water Depth: N/A ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
■ 3" Clear Acetate Liner
▩ Hollow Stem Auger
▯ NX Wireline Core Barrel
ATD - At time of drilling
▣ Geoprobe Macro Sampler
Unified Soil Classification based on field visual observations.

URS (ENVIRON) LOG 1197CMS2.GPJ URSSTLEV.GDT 8/25/04